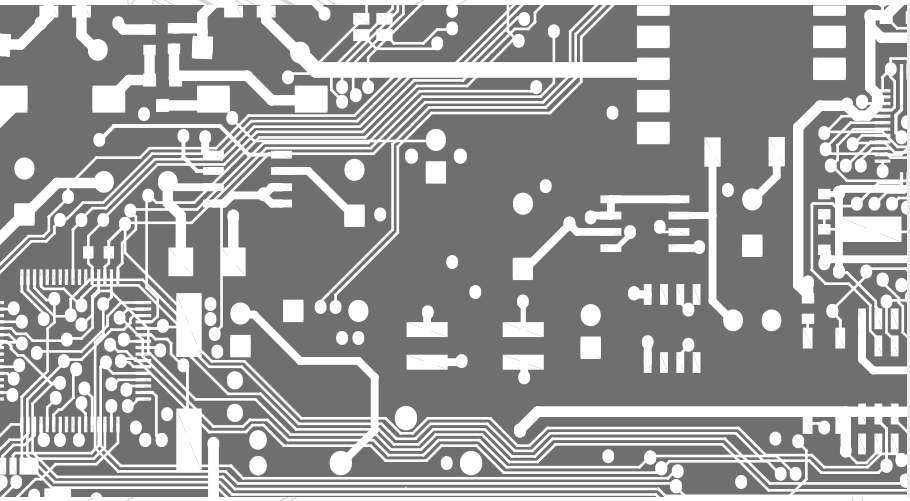

PLUG-IN CARDS
OMR 700

INPUT CARDS
OUTPUT CARDS
POWER SUPPLY CARDS

orbit merret

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OMR 700 - CARDS

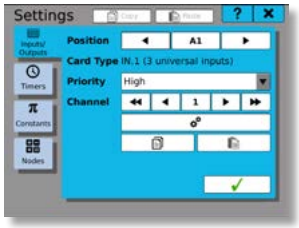
IN.01
3x UNIVERSAL INPUT - ISOLATED

UNIVERSAL INPUT

DC	±60/±150/±300/±1 200 mV
PM	0...5 mA/0...20 mA/4...20 mA/±5 mA/±20 mA 0...2 V/0...5 V/0...10 V/0...40 V/±2 V/±5 V/±10 V/±40 V
OHM	0...100 Ω/0...300 Ω/0...1 kΩ/0...3 KΩ/0...10 kΩ/0...30 kΩ
Pt	Pt 50/Pt 100/Pt 500/Pt 1 000
Ni	Ni 1 000/Ni 10 000
Cu	Cu 50/Cu 100
T/C	J/K/T/E/B/S/R/N/L
DU	Linear potentiometer

CARD SETTINGS

THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

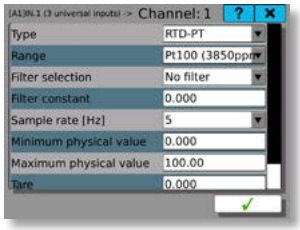


Select the **Position of the card** to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer **priority** of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

> **!**
> When changing measurement type, the new selection must be stored first (button ✓). Only then further items can be edited.

Type	DC V-A meter ▸ Process monitor ▸ Ohmmeter ▸ Thermometer Pt xxx ▸ Thermometer Cu xxx ▸ Thermom. Ni xxx ▸ Thermom. T/C ▸ Lin. potentiom.
Range	**DC** 0...60 mV ▸ 0...150 mV ▸ 0...300 mV ▸ 0...1200 mV ▸ ±60 mV ▸ ±150 mV ▸ ±300 mV ▸ ±1 200 mV **PM** 0...5 mA ▸ 0...20 mA ▸ 4...20 mA ▸ ±5 mA ▸ ±20 mA ▸ 0...2 V ▸ 0...5 V ▸ 0...10 V ▸ 0...40 V ▸ ±2 V ▸ ±5 V ▸ ±10 V ▸ ±40 V **OHM** 100 Ω ▸ 300 Ω ▸ 1 kΩ ▸ 10 kΩ ▸ 10 kΩ ▸ 30 kΩ **Pt** Pt 50-3580 ▸ Pt 100-3580 ▸ Pt 500-3580 ▸ Pt 1 000-3580 **Cu** Cu 50-4280 ▸ Cu 100-4280 **Ni** Ni 1000-6180 ▸ Ni 10000-6180 **T/C** J ▸ K ▸ T ▸ E ▸ B ▸ S ▸ R ▸ N ▸ L **DU** Lin. potent.
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter
Sampling frequency	5...320 Hz sampling frequency of A/D transmitter
Min. physic. values	value that corresponds to the minimum selected range of the input values
Max. physic. values	value that corresponds to the maximum selected range of input values
Tare	to reset the values by non-zero input signals

* In temperature measurements (Pt, Ni, Cu, T/C) the conversion to a physical value (temperature) is carried out by the sensor regardless of the values.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.01
TECHNICAL DATA

INPUTS

Number		3, isolated		
DC	Range	0...60/150/300/1200 mV	> 10 MΩ	3
		±60 mV/±150 mV/±150 mV	> 10 MΩ	3
		±1 200 mV	> 10 MΩ	3
PM	Range	0...5 mA/0...20 mA/4...20 mA	10 Ω	1
		±5 mA/±20 mA	10 Ω	1
		0...2 V/0...5 V/0...10 V/0...40 V	> 0,5 MΩ	2
		±2 V/±5 V/±10 V/±40 V	> 10 MΩ	2
OHM	Range	0...100 Ω/0...300 Ω 0...1 kΩ/0...3 kΩ /0...10 kΩ/0...30 kΩ		5
	Connection*	2, 3 or 4 wire		
Pt	Type	Pt 100/500/1 000 Ω - 3 850 ppm	-50°...450°C	5
	Connection*	2, 3 or 4 wire		
Ni	Type	Ni 1 000/ Ni 10 000 - 6 180 ppm/°C	-200°...250°C	5
	Connection*	2, 3 or 4 wire		
Cu	Type	Cu 50/Cu 100 - 4 280 ppm/°C	-200°...200°C	5
	Connection*	2, 3 or 4 wire		
TC	Type	J (Fe-CuNi)	-200°...900°C	3
		K (NiCr-Ni)	-200°...1 300°C	
		T (Cu-CuNi)	-200°...400°C	
		E (NiCr-CuNi)	-200°...690°C	
		B (PtRh30-PtRh6)	300°...1 820°C	
		S (PtRh10-Pt)	-50°...1 760°C	
		R (Pt13Rh-Pt)	-50°...1 740°C	
		N (Omegalloy)	-200°...1 300°C	
		L (Fe-CuNi)	-200°...900°C	
DU	Lin. potentiom. power supply	2,5 VDC/6 mA min resistance of input is 500 Ω		4

* When using inputs in 2-wire or 3-wire connection, it is essential to connect unused inputs on the terminal board using jumpers (2w • E+/S+, E-/S-, 3w • E-/S-)

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,15 % of range (valid for 10 measur./s)
Rate	5...320 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Compen. of conduct	max. 40 Ω/100 Ω
Cold junction compensation (CJC)	automatic
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

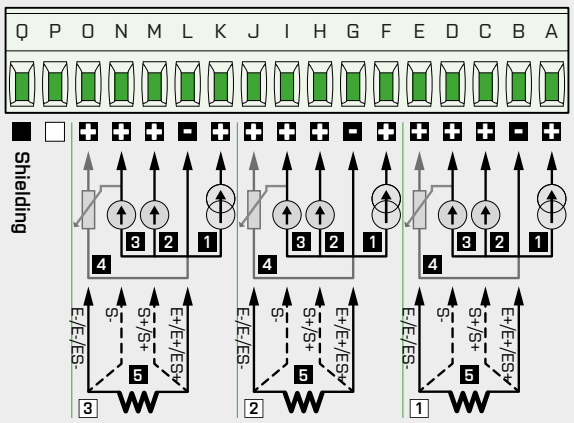
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm²
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) Input/Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, par.6

* PI - Primary insulation, DI - Double insulation

IN.01
CONNECTION

IN.1



1 **PM:** 0...5/20 mA/4...20 mA
2 **PM:** ±2 V/±5 V/±10 V/±40 V
3 **DC:** ±60/±150/±300/±1 200 mV
T/C: J/K/T/E/B/S/R/N/L
4 **DU:** Lin. potentiometer (> 500 Ω)
5 **OHM:** 0...0,1/1/10/30 kΩ/Auto
RTD: Pt 50/100/500/1 000
Cu: Cu 50/100
Ni: Ni 1 000/10 000

IN.01
ORDER CODE

IN.01		- ☐
Specifications	Used only for customised versions	00

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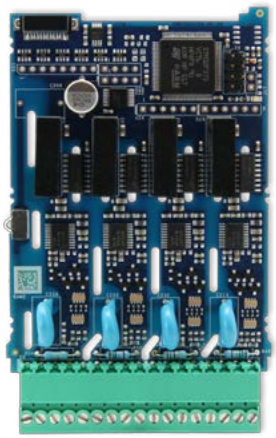
IN.02
4x CURRENT/VOLTAGE INPUT, ISOLATED

DC CURRENT/VOLTAGE INPUT

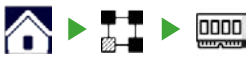
PM 0...5 mA/0...20 mA/4...20 mA
±5 mA/±20 mA
0...2 V/0...5 V/0...10 V/0...40 V
±2 V/±5 V/±10 V/±40 V

RATE
< 320 measurements/s

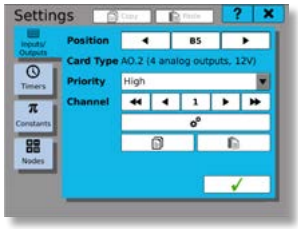
ACCURACY
0,2 % of range



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

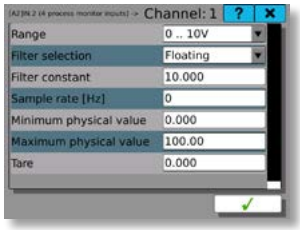


Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

Range	PM 0...5 mA ▸ 0...20 mA ▸ 4...20 mA ▸ ±20 mA ▸ ±20 mA ▸ 0...2 V ▸ 0...5 V ▸ 0...10 V ▸ 0...40 V ▸ ±2 V ▸ ±5 V ▸ ±10 V ▸ ±40 V
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter
Sampling frequency	5...320 Hz sampling frequency of A/D transmitter
Min. physic. values	value that corresponds to the minimum selected range of the input values
Max. physic. values	value that corresponds to the maximum selected range of input values
Tare	to reset the values by non-zero input signals

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.02
TECHNICAL DATA

INPUTS

Number		4, isolated		
PM	Range	0...5 mA/0...20 mA/4...20 mA	15 Ω	1
		±5 mA/±20 mA	15 Ω	1
		0...2 V/0...5 V/0...10 V/0...40 V	> 10 MΩ	2
		±2 V/±5 V/±10 V/±40 V	> 10 MΩ	2

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,2 % of range (valid for 10 measur./s)
Rate	5...320 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

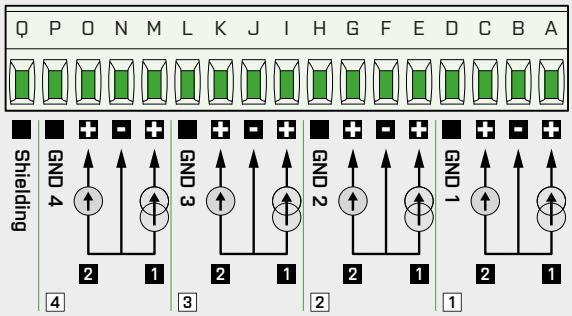
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) Input/Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, par.6

* PI - Primary insulation, DI - Double insulation

IN.02
CONNECTION

IN.2



1 **DC - I:** ±5/±20 mA, 0...20/4...20 mA

2 **DC - U:** ±2/±5/±10/±40 V, 0...2/5/10/40 V

IN.02
ORDER CODE

IN.02		- ☐
Specifications	Used only for customised versions	00

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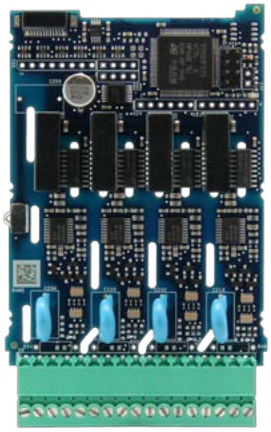
IN.03
4x INPUT FOR Pt xxxx, Cu xxx, Ni xxxx, ISOLATED

INPUT FOR RESISTIVE SENSORS

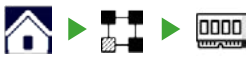
OHM	0...100 Ω / 0...300 Ω / 0...1 kΩ / 0...3 kΩ / 0...10 kΩ / 0...30 kΩ
Pt	Pt 50 / Pt 100 / Pt 500 / Pt 1 000
Ni	Ni 1 000 / Ni 10 000
Cu	Cu 50 / Cu 100

RATE
< 320 measurements / s

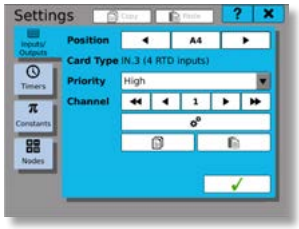
ACCURACY
0,2 % of range



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

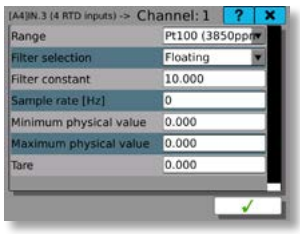


Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames / s, in slots B 550 frames / s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

Type	Ohmmeter ▸ Thermom. Pt xxx ▸ Thermom. Cu xxx ▸ Thermometer Ni xxxx
Range	**OHM** 100 Ω ▸ 300 Ω ▸ 1 kΩ ▸ 3 kΩ ▸ 10 kΩ ▸ 30 kΩ **Pt** Pt 50-3580 ▸ Pt 100-3580 ▸ Pt 500-3580 ▸ Pt 1 000-3580 **Cu** Cu 50-4280 ▸ Cu 100-4280 **Ni** Ni 1000-6180 ▸ Ni 10000-6180
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter
Sampling frequency	5...320 Hz sampling frequency of A/D transmitter
Min. physic. values*	value that corresponds to the minimum selected range of the input values
Max. physic. values*	value that corresponds to the maximum selected range of the input values
Tare*	to reset the values by non-zero input signals

* In temperature measurements (Pt, Ni, Cu, T/C) the conversion to a physical value (temperature) is carried out by the sensor regardless of the values.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.03
TECHNICAL DATA

INPUTS

Number		4, isolated
OHM	Range	0...100 Ω/0...300 Ω 0...1 kΩ/0...1 kΩ/0...3 kΩ/0...10 kΩ/0...30 kΩ
	Connection*	2 or 3 wire
Pt	Type	Pt 100/500/1 000 Ω, s 3 850 ppm -50°...450°C
	Connection*	2 or 3 wire
Ni	Type	Ni 1 000/Ni 10 000 s 6 180 ppm/°C -200°...250°C
	Connection*	2 or 3 wire
Cu	Type	Cu 50/Cu 100 s 4 280 ppm/°C -200°...200°C
	Connection*	2 or 3 wire

* In case of measurements with 2-wire connection it is necessary to connect the unused inputs (2d • E+/S+, E-/S-).

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,2 % of range (valid for 10 measur./s)
Rate	5...320 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Compen. of conduct	max. 40 Ω/100 Ω
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

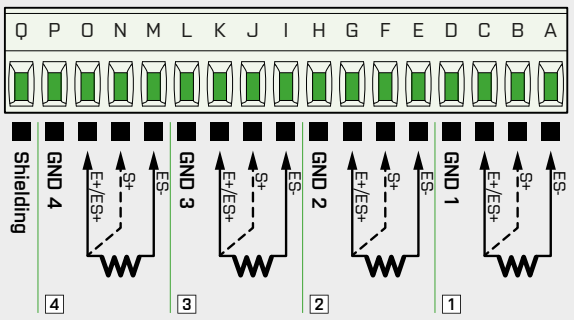
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) Input/Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.03
CONNECTION

IN.3



OHM: 0...0,1/0,3/1/3/10/30 kΩ
RTD: Pt 50/100/500/1 000
Cu: Cu 50/100
Ni: Ni 1 000/10 000

IN.03
ORDER CODE

IN.03		- ☐
Specifications	Used only for customised versions	00

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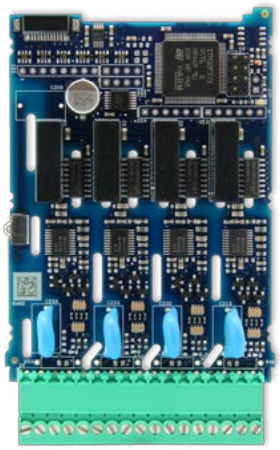
IN.04
4x INPUT FOR THERMOCOUPLES, ISOLATED

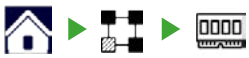
INPUT FOR THERMOCOUPLES
T/C J/K/T/E/B/S/R/N/L

RATE
< 320 measurements/s

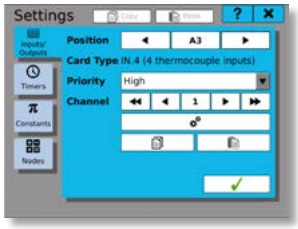
ACCURACY
0,2 % of range



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

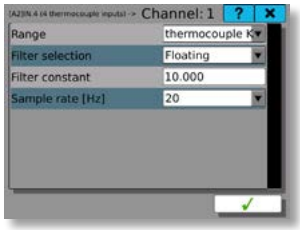


Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

Range	T/C J ▸ K ▸ T ▸ E ▸ B ▸ S ▸ R ▸ N ▸ L
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filter constant	Indicates the size of the filter
Sampling frequency	5...320 Hz sampling frequency of A/D transmitter

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.04
TECHNICAL DATA

INPUTS

Number		4, isolated	
TC	Type	J (Fe-CuNi)	-200°...900°C
		K (NiCr-Ni)	-200°...1 300°C
		T (Cu-CuNi)	-200°...400°C
		E (NiCr-CuNi)	-200°...690°C
		B (PtRh30-PtRh6)	300°...1 820°C
		S (PtRh10-Pt)	-50°...1 760°C
		R (Pt13Rh-Pt)	-50°...1 740°C
		N (Omegalloy)	-200°...1 300°C
		L (Fe-CuNi)	-200°...900°C

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,2 % of range (valid for 10 measur./s)
Rate	5...320 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Cold junction compensation (CJC)	automatic
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

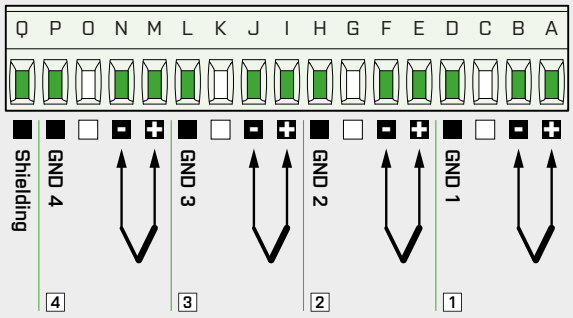
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) Input/Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.04
CONNECTION

IN.4



T/C: J/K/T/E/B/S/R/N/L

IN.04
ORDER CODE

IN.04		- ☐
Specifications	Used only for customised versions	00

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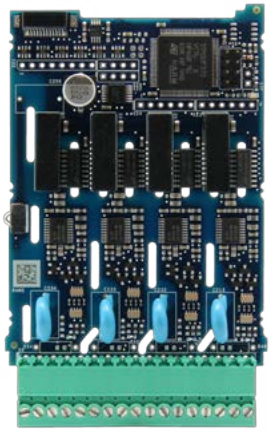
IN.05
5x INPUT FOR Pt xxxx, Cu xxx, Ni xxxx

INPUT FOR RESISTIVE SENSORS

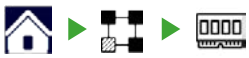
OHM	0...100 Ω / 0...300 Ω / 0...1 kΩ / 0...3 kΩ / 0...10 kΩ / 0...30 kΩ
Pt	Pt 50 / Pt 100 / Pt 500 / Pt 1 000
Ni	Ni 1 000 / Ni 10 000
Cu	Cu 50 / Cu 100

RATE
< 320 measurements / s

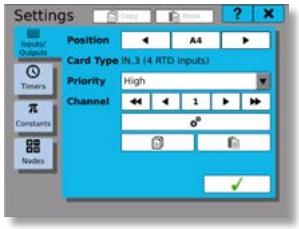
ACCURACY
0,2 % of range



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

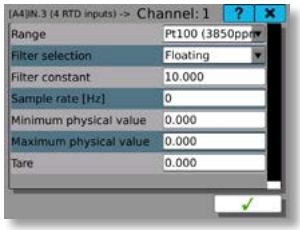


Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames / s, in slots B 550 frames / s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

Type	Ohmmeter ▸ Thermom. Pt xxx ▸ Thermom. Cu xxx ▸ Thermometer Ni xxxx
Range	**OHM** 100 Ω ▸ 300 Ω ▸ 1 kΩ ▸ 3 kΩ ▸ 10 kΩ ▸ 30 kΩ **Pt** Pt 50-3580 ▸ Pt 100-3580 ▸ Pt 500-3580 ▸ Pt 1 000-3580 **Cu** Cu 50-4280 ▸ Cu 100-4280 **Ni** Ni 1000-6180 ▸ Ni 10000-6180
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter
Sampling frequency	5...320 Hz sampling frequency of A/D transmitter
Min. physic. values*	value that corresponds to the minimum selected range of the input values
Max. physic. values*	value that corresponds to the maximum selected range of the input values
Tare*	to reset the values by non-zero input signals

* In temperature measurements (Pt, Ni, Cu, T/C) the conversion to a physical value (temperature) is carried out by the sensor regardless of the values.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.05
TECHNICAL DATA

INPUTS

Number		5
OHM	Range	0...100 Ω/0...300 Ω 0...1 kΩ/0...1 kΩ/0...3 kΩ/0...10 kΩ/0...30 kΩ
	Connection*	2 or 3 wire
Pt	Type	Pt 100/500/1 000 Ω, s 3 850 ppm -50°...450°C
	Connection*	2 or 3 wire
Ni	Type	Ni 1 000/Ni 10 000 s 6 180 ppm/°C -200°...250°C
	Connection*	2 or 3 wire
Cu	Type	Cu 50/Cu 100 s 4 280 ppm/°C -200°...200°C
	Connection*	2 or 3 wire

* In case of measurements with 2- or 3-wire connection it is necessary to connect the unused inputs (2d • E+/S+, E-/S-, 3d • E-/S-).

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,2 % of range (valid for 10 measur./s)
Rate	5...320 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Compen. of conduct	max. 40 Ω/100 Ω
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

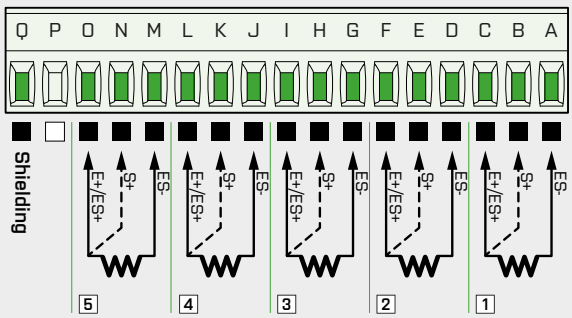
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.05
CONNECTION

IN.5



OHM: 0...0,1/0,3/1/3/10/30 kΩ
RTD: Pt 50/100/500/1 000
Cu: Cu 50/100
Ni: Ni 1 000/10 000

IN.05
ORDER CODE

IN.05		- ☐
Specifications	Used only for customised versions	00

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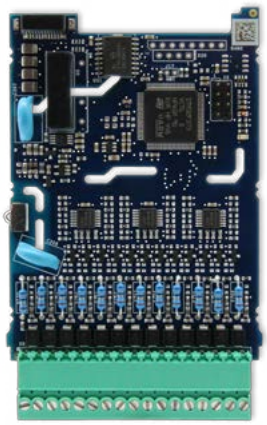
IN.06
12x DC INPUTS - CURRENT

CURRENT INPUT
0...5 mA/0...20 mA/4...20 mA/±5 mA/±20 mA

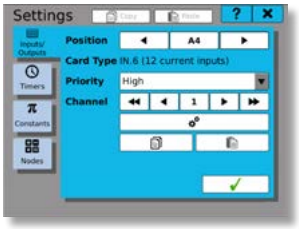
RATE
< 1 000 measurements/s

ACCURACY
0,2 % of range



CARD SETTINGS

THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



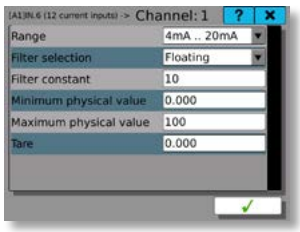
Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Range	PM 0...5 mA ▸ 0...20 mA ▸ 4...20 mA ▸ ±5 mA ▸ ±20 mA
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter
Min. physic. values	value that corresponds to the minimum selected range of the input values
Max. physic. values	value that corresponds to the maximum selected range of input values
Tare	to reset the values by non-zero input signals



Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.06
TECHNICAL DATA

INPUTS

Number		12	
PM	Range	0...5 mA/0...20 mA/4...20 mA ±5 mA/±20 mA	68 R 68 R

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,2 % of range (valid for 10 measur./s)
Rate	< 1 000 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

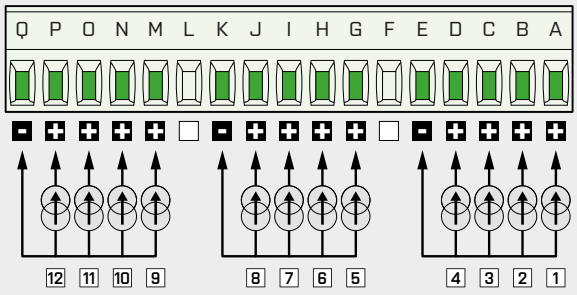
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm²
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, par.6

* PI - Primary insulation, DI - Double insulation

IN.06
CONNECTION

IN.6



DC - I: 0...5 mA/0...20 mA/4...20 mA/±5/±20 mA/

IN.06
ORDER CODE

IN.06		- ☐
Specifications	Used only for customised versions	00

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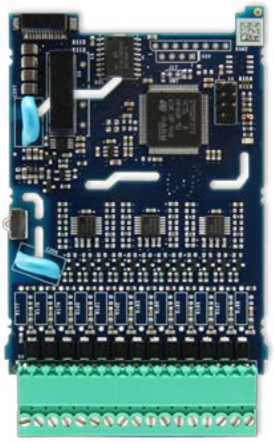
IN.07
12x VOLTAGE INPUT

VOLTAGE INPUT
0...2 V/0...5 V/0...10 V/0...40 V
±2 V/±5 V/±10 V/±40 V

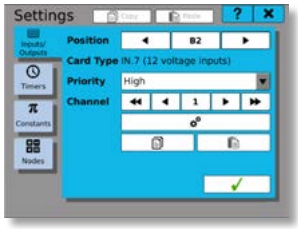
RATE
< 1 000 measurements/s

ACCURACY
0,2 % of range



CARD SETTINGS

THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



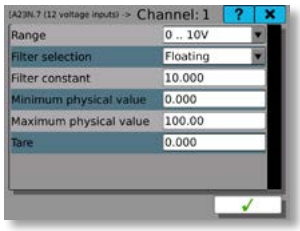
Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Range	PM 0...2 V ▸ 0...5 V ▸ 0...10 V ▸ 0...40 V ±2 V ▸ ±5 V ▸ ±10 V ▸ ±40 V
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter
Min. physic. values	value that corresponds to the minimum selected range of the input values
Max. physic. values	value that corresponds to the maximum selected range of input values
Tare	to reset the values by non-zero input signals



Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.07
TECHNICAL DATA

INPUTS

Number		12	
PM	Range	0...2 V/0...5 V/0...10 V/0...40 V ±2 V/±5 V/±10 V/±40 V	> 200 kΩ > 200 kΩ

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,2 % of range (valid for 10 measur./s)
Rate	< 1 000 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

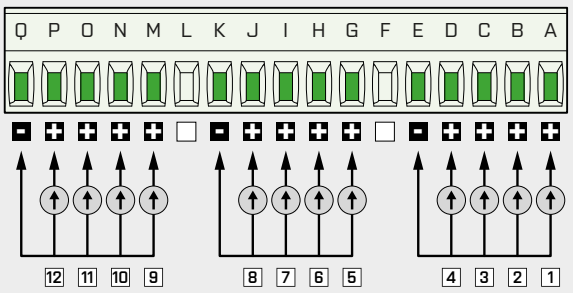
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm²
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.07
CONNECTION

IN.7



DC - U: 0...2 V/0...5 V/0...10 V/0...40 V/±2/±5/±10/40 V

IN.07
ORDER CODE

IN.07		- ☐
Specifications	Used only for customised versions	00

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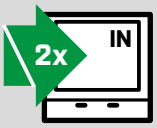
IN.08
2x INPUT FOR STRAIN GAUGES, ISOLATED



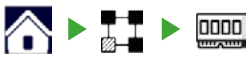
INPUT FOR STRAIN GAUGES
LC 1...4/2...8/4...16 mV/V

RATE
< 100 measurements/s

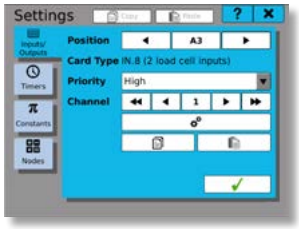
ACCURACY
0,05 % of range

LOAD CELL BRIDGE EXCITATION
10 VDC, load ≥ 80 Ω

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



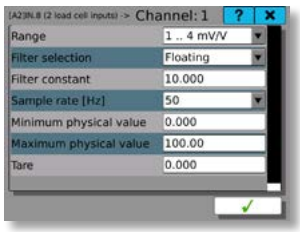
Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Range	LC 1...4 mV/V ▸ 2...8 mV/V ▸ 4...16 mV/V
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter
Sampling frequency	5...320 Hz sampling frequency of A/D transmitter
Min. physic. values	value that corresponds to the minimum selected range of the input values
Max. physic. values	value that corresponds to the maximum selected range of input values
Tare	to reset the values by non-zero input signals



Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.08
TECHNICAL DATA

INPUTS

Number		2, isolated
LC	Range	1...4 mV/V 2...8 mV/V 4...16 mV/V
	Connection	6 wire
	Power supply můsTCu	10 VDC, load ≥ 80 Ω

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,05 % of range (valid for 10 measur./s)
Rate	5...100 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

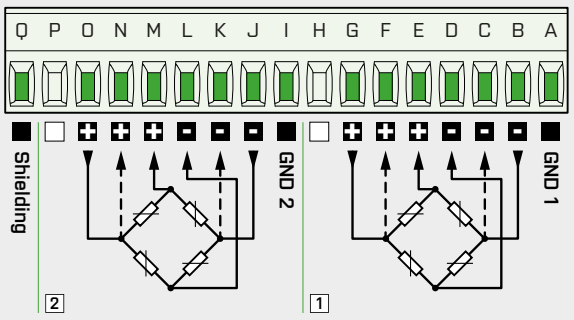
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) Input/Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.08
CONNECTION

IN.8



DMS: 1...16 mV/V

IN.08
ORDER CODE

IN.08		- ☐
Specifications	Used only for customised versions	00

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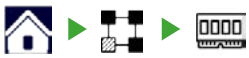
IN.09
3x PRECISE CURRENT/VOLTAGE INPUT, ISOLATED

CURRENT/VOLTAGE INPUT
PM 0...20 mA/4...20 mA/±20 mA
0...5 V/0...10 V/±5 V/±10 V

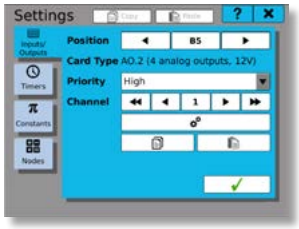
RATE
< 1 000 measurements/s

ACCURACY
0,02 % of range

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



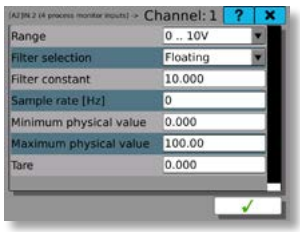
Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Range	PM 0...20 mA ▸ 4...20 mA ▸ ±20 mA 0...5 V ▸ 0...10 V ▸ ±5 V ▸ ±10 V
Filter selection	Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant	Indicates the size of the filter
Sampling frequency	5...320 Hz sampling frequency of A/D transmitter
Min. physic. values	value that corresponds to the minimum selected range of the input values
Max. physic. values	value that corresponds to the maximum selected range of input values
Tare	to reset the values by non-zero input signals



Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully in the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.09
TECHNICAL DATA

INPUTS

Number		3, isolated		
PM	Range	0...20 mA/4...20 mA	15 Ω	1
		±20 mA/	15 Ω	1
		0...5 V/0...10 V	> 10 MΩ	2
		±5 V/±10 V	> 10 MΩ	2

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,02 % of range (valid for 10 measur./s)
Rate	5...1 280 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

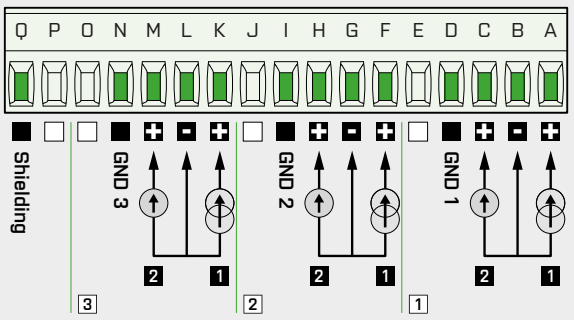
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) Input/Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.09
CONNECTION

IN.9



1 **DC - I:** 0...20 mA/4...20 mA/±20 mA

2 **DC - U:** 0...5 V/0...10 V/±5 V/±10 V

IN.09
ORDER CODE

IN.09		- ☐
Specifications	Used only for customised versions	00

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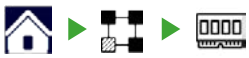
IN.10
2x AC CURRENT/VOLTAGE INPUT, ISOLATED

AC CURRENT/VOLTAGE INPUT
AC 0...10 V/0...120 V/0...250 V/0...450 V
0...60 mV/0...150 mV/0...300 mV/0...1 A/0...2,5 A/0...5 A

RATE
10 measurements/s

ACCURACY
0,3 % of range

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully in the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.10
TECHNICAL DATA

INPUTS

Number		2, isolated		
AC	Range	±20 mV	> 10 MΩ	3
		±150 mV	> 10 MΩ	3
		±1 200 mV	1,25 MΩ	3

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,3 % of range
Rate	< 10 measurements/s
Overload capacity	10x (t < 100 ms) ne pro 5 A a 250 V, 2x (long term)
Digital filters	Floating average, Exponential average
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

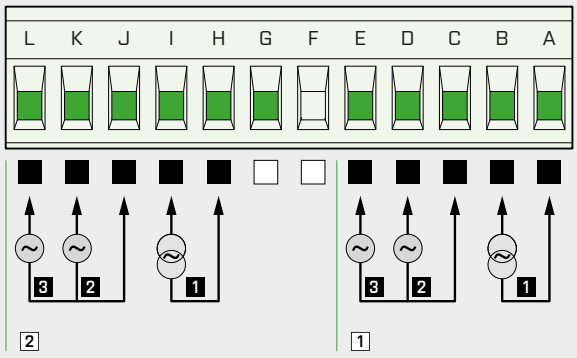
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) Input/Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.10
CONNECTION

IN.10



1 **AC - I:** 0...60/150/300 mV
0...1/2,5/5 A

2 **AC - U1:** 0...10/250 V

3 **AC - U2:** 0...120/450 V

IN.10
ORDER CODE

IN.10		- ☐
Specifications	Used only for customised versions	00

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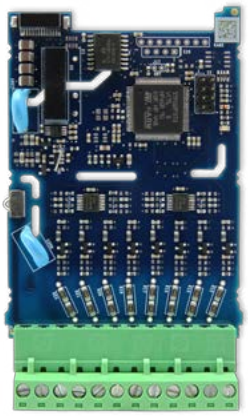
IN.11
8x ANALOGUE / DIGITAL INPUT

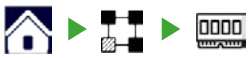
ANALOGUE / DIGITAL INPUT
AC / DC 12...250 V

RATE
< 1 ms

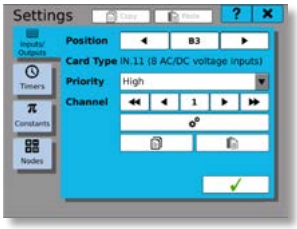
ACCURACY
0,3 % of range



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

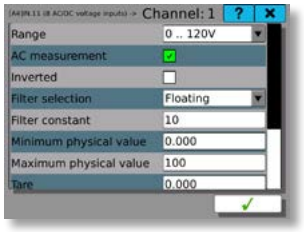


Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames / s, in slots B 550 frames / s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

Range	DC	0...30 V ▸ 0...120 V ▸ 0...250 V ▸ ±30 V ▸ ±120 V ▸ ±250 V ▸
	AC	30 V ▸ 120 V ▸ 250 V
Alternating voltage	☑	input measures and compares AC voltage
	☐	input measures and compares DC voltage
Inverted	☑	input inversion
	☐	without change
Filter selection		Floating floating arithmetic average of the number of measured values Exponential integration filter of the first order with a time constant measurement
Filtr constant		Indicates the size of the filter
Min. physic. values		value that corresponds to the minimum selected range of the input values
Max. physic. values		value that corresponds to the maximum selected range of input values
Tare		to reset the values by non-zero input signals

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.11
TECHNICAL DATA

INPUTS

Number		8	
DC	Range	0...30 V/0...120 V/0...250 V	> 1 MΩ
		±30 V/±120 V/±250 V	> 1 MΩ
AC		0...30 V/0...120 V/0...250 V	> 1 MΩ

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	1 % of range (DC) (valid for 10 measur./s) 5 % of range (AC)
Rate	< 1 000 measurements/s (DC) < 5 Sa/s (AC)
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

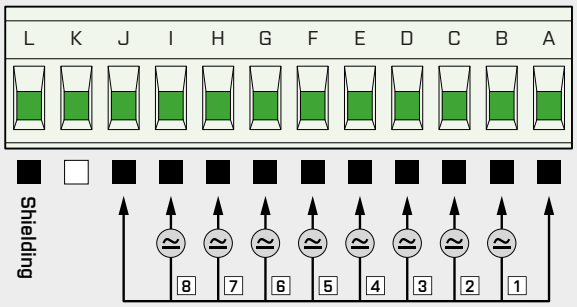
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 2,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.11
CONNECTION

IN.11



AC/DC: 12...250 V AC/DC

IN.11
ORDER CODE

IN.11		- ☐
Specifications	Used only for customised versions	00

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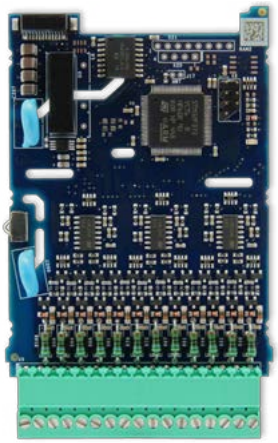
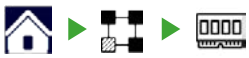
IN.12
12x INPUT FOR COUNTER / FREQUENCY

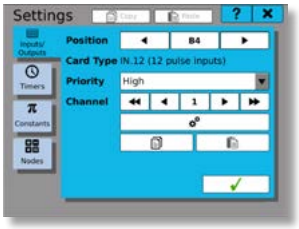
INPUT FOR COUNTER / FREQUENCY
UC Contact, PNP, NPN
< 10 kHz



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames / s, in slots B 550 frames / s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

Input type	UC Contact ▸ 5 V ▸ 10 V ▸ 12 V ▸ 24 V ▸ 30 V
Inverted	☑ input inversion ☐ without change
Edge	rising ▸ falling ▸ both edge selection (for counter reaction)
Filter time	100 µs ▸ 200 µs ▸ 500 µs ▸ 1 ms ▸ 2 ms ▸ 5 ms ▸ 10 ms ▸ 20 ms ▸ 50 ms ▸ 100 ms ▸ 200 ms ▸ 500 ms ▸ 1 s ▸ 2 s ▸ 5 s ▸ 10 s ▸ 20 s ▸ 50 s ▸ 1 min ▸ 2 min ▸ 5 min ▸ 10 min Setting determines how long the input pulse must be to prevent its filtration.
Measur. time	frequency measurement counts number of pulses within this time
Count down	☑ counter counts downwards ☐ counter counts upwards
Preset value	signal Preset sets contents of the counter to this value
Counter scale	constant, which re-multiplies the value of the counter (for conversion to a physical value)
Frequency scale	constant, which re-multiplies the value of the frequency (for conversion to a physical value)
Tare	to reset the values by non-zero input signals

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap.
3. Replace the back cover and turn the device on.
4. Setting of the card is described in the preceding paragraph.

IN.12
TECHNICAL DATA

INPUTS

Number		12
UC	Input	on contact, PNP, NPN 5 V, 10 V, 12 V, 24 V, 30 V
	Input frequency	0,1 Hz...10 kHz

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,05 % of range (Frequency)
Overload capacity	10x (t < 100 ms), 2x
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

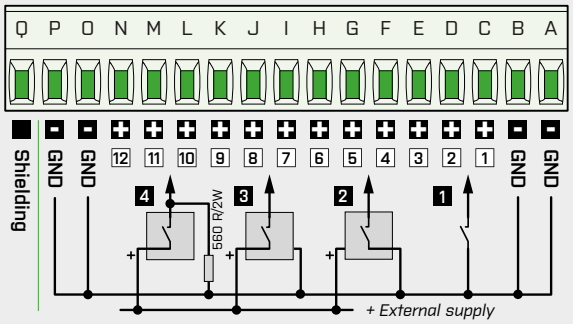
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.12
CONNECTION

IN.12



1 contact
2 2-wire sensors, **PNP** NO
3 3-wire sensors, **PNP** NO
4 3-wire sensors, **NPN** NO

IN.12
ORDER CODE

IN.12		- ☐
Specifications	Used only for customised versions	00

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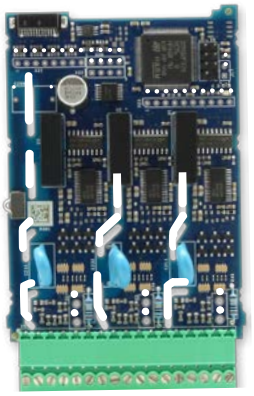
IN.13
2x INPUT FOR IRC, UP/DW

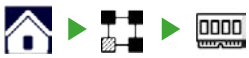
INPUT COUNTER / FREQUENCY - IRC, UP/DW

UQC Contact, PNP, NPN
< 1 MHz

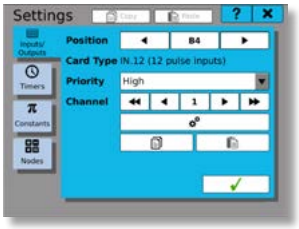
SENSOR EXCITATION
5/24 VDC, < 200 mA



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

Input type	UQC Contact ▸ 5 V ▸ 10 V ▸ 12 V ▸ 24 V ▸ 30 V
Inverted	☑ input inversion ☐ without change
Edge	rising ▸ falling ▸ both edge selection (for counter reaction)
Filter time	100 µs ▸ 200 µs ▸ 500 µs ▸ 1 ms ▸ 2 ms ▸ 5 ms ▸ 10 ms ▸ 20 ms ▸ 50 ms ▸ 100 ms ▸ 200 ms ▸ 500 ms ▸ 1 s ▸ 2 s ▸ 5 s ▸ 10 s ▸ 20 s ▸ 50 s ▸ 1 min ▸ 2 min ▸ 5 min ▸ 10 min Setting determines how long the input pulse must be to prevent its filtration.
Measur. time	frequency measurement counts number of pulses within this time
Count down	☑ counter counts downwards ☐ counter counts upwards
Preset value	signal Preset sets contents of the counter to this value
Counter scale	constant, which re-multiplies the value of the counter (for conversion to a physical value)
Frequency scale	constant, which re-multiplies the value of the frequency (for conversion to a physical value)
Tare	to reset the values by non-zero input signals

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully in the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.13
TECHNICAL DATA

INPUTS

Number		2
UQC	Input	on contact, PNP, NPN 5 V, 10 V, 12 V, 24 V, 30 V
	Input frequency	0,1 Hz...1 MHz

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,05 % of range (Frequency)
Overload capacity	10x (t < 100 ms), 2x
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

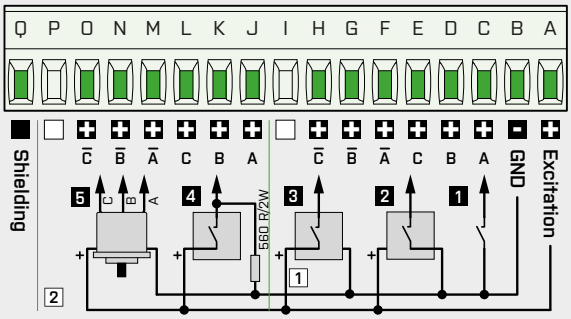
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.13
CONNECTION

IN.13



1 contact
2 2-wire sensors, **PNP** NO
3 3-wire sensors, **PNP** NO
4 3-wire sensors, **NPN** NO
5 IRC sensors, **NPN** NO

IN.13
ORDER CODE

IN.13		- ☐
Specifications	Used only for customised versions	00

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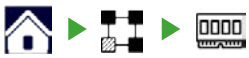
IN.14
2x INPUT FOR LVDT SENSORS

INPUT FOR LVDT SENSORS
LVDT 1/3/5 VAC WITH FREQUENCY 2,5/5/10 kHz

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully in the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

IN.14
TECHNICAL DATA

INPUTS

Number		2, isolated
LVDT	Range	1/3/5 VAC with frequency 2,5/5/10 kHz
	Connection	2-, 5- or 6-wire

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Accuracy	±0,2 % of range (valid for 10 measur./s)
Rate	< 1 000 measurements/s
Overload capacity	10x (t < 100 ms), 2x
Digital filters	Floating average, Exponential average
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

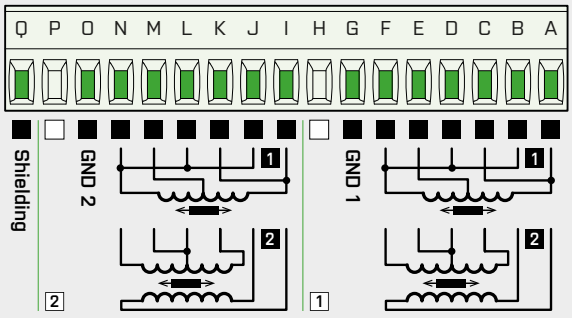
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) Input/Input - 150 V (PI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

IN.14
CONNECTION

IN.14



1 3-wire LVDT sensors
2 5-wire LVDT sensors

IN.14
ORDER CODE

IN.14		- ☐
Specifications	Used only for customised versions	00

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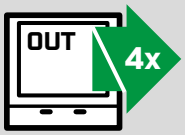
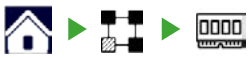
OUT.01
4x RELAYS WITH SWITCH-OVER CONTACT



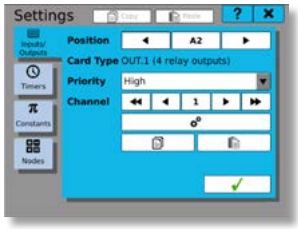
DIGITAL OUTPUTS
4x Relays with switch-over contact

RATE
< 10 ms

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Limit MIN	setting the lower limit for switching
Limit MAX	setting the upper limit for switching
Hysteresis	shows the hysteresis range around the limit (on both sides, Limit. ±1/2 Hysteresis)
Activation delay	0,0...99,9 s setting the activation output delay
Deactivation delay	0,0...99,9 s setting the deactivation output delay
Permit MIN	☑ output is evaluated by the setting Limit MIN and MAX
Permit MAX	☐ output is set in binary form directly from the node
Inverted	☑ relay is in the active state OFF ☐ relay is in the active state ON

Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

OUT.01
TECHNICAL DATA

OUTPUTS

Number	4, isolated
Type	Relays with switch-over contact (Form C) ON/OFF
Maximum switching U and I	250 VAC/30 VDC/3 A
Maximum switching power	2 500 VA/240 W
Relays	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300
Rate	< 10 ms

TECHNICAL SPECIFICATION

Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

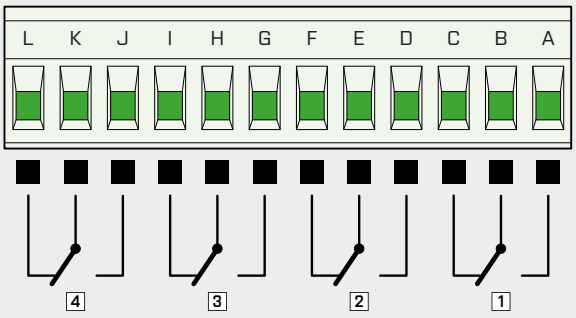
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 2,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 2,5 kVAC over 1 min between outputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, par.6

* PI - Primary insulation, DI - Double insulation

OUT.01
CONNECTION

OUT.1



OUT.01
ORDER CODE

OUT.01		- ☐
Specifications	Used only for customised versions	00

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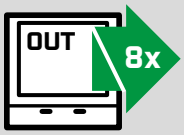
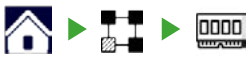
OUT.02
8x RELAYS WITH SWITCH-ON CONTACT



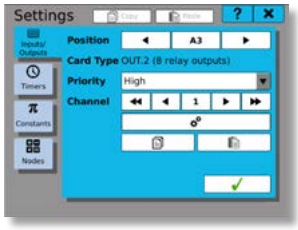
DIGITAL OUTPUTS
8x Relays with switch-on contact

RATE
< 10 ms

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



Select the Position of the card to be set. Use buttons ◀ ▶ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◀◀ ◀ ▶ ▶▶ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

Limit MIN	setting the lower limit for switching
Limit MAX	setting the upper limit for switching
Hysteresis	shows the hysteresis range around the limit (on both sides, Limit. ±1/2 Hysteresis)
Activation delay	0,0...99,9 s setting the activation output delay
Deactivation delay	0,0...99,9 s setting the deactivation output delay
Permit MIN	☑ output is evaluated by the setting Limit MIN and MAX
Permit MAX	☐ output is set in binary form directly from the node
Inverted	☑ relay is in the active state OFF ☐ relay is in the active state ON

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

OUT.02
TECHNICAL DATA

OUTPUTS

Number	8, isolated
Type	Relays with switch-on contact (Form A) ON/OFF
Maximum switching U and I	250 VAC/30 VDC/3 A
Maximum switching power	2 500 VA/240 W
Relays	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300
Rate	< 10 ms

TECHNICAL SPECIFICATION

Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

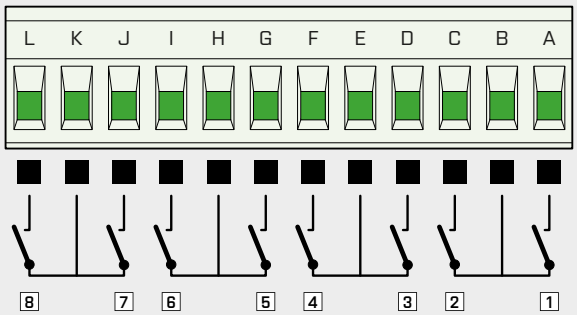
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 2,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 2,5 kVAC over 1 min between outputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, par.6

* PI - Primary insulation, DI - Double insulation

OUT.02
CONNECTION

OUT.2



OUT.02
ORDER CODE

OUT.02		- ☐
Specifications	Used only for customised versions	00

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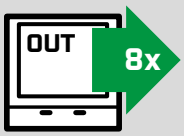
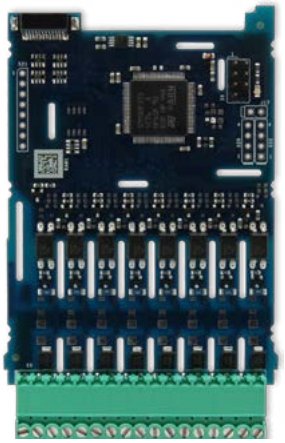
OUT.03
8x OPEN COLLECTOR, NPN

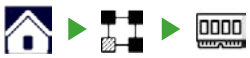


DIGITAL OUTPUT
8x open collector, NPN

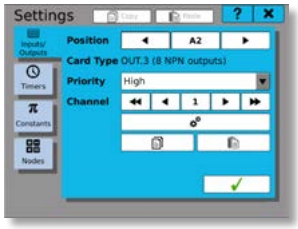
RATE
< 5 ms



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



Select the Position of the card to be set. Use buttons ◀ ▶ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◀◀ ◀ ▶ ▶▶ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Limit MIN	setting the lower limit for switching
Limit MAX	setting the upper limit for switching
Hysteresis	shows the hysteresis range around the limit (on both sides, Limit. ±1/2 Hysteresis)
Activation delay	0,0...99,9 s setting the activation output delay
Deactivation delay	0,0...99,9 s setting the deactivation output delay
Permit MIN	☑ output is evaluated by the setting Limit MIN and MAX
Permit MAX	☐ output is set in binary form directly from the node
Inverted	☑ relay is in the active state OFF ☐ relay is in the active state ON

Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

OUT.03
TECHNICAL DATA

OUTPUTS

Number	8
Type	Open collectors, NPN ON/OFF, PWM
Maximum switching U and I	30 VDC/300 mA
Maximum switching power	9 W
Rate	< 5 ms

TECHNICAL SPECIFICATION

Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

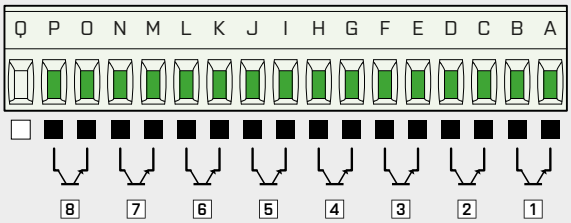
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. 300 V (ZI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

OUT.03
CONNECTION

OUT.3



OUT.03
ORDER CODE

OUT.03		- ☐
Specifications	Used only for customised versions	00

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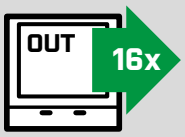
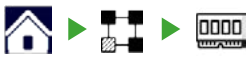
OUT.04
16x OPEN COLLECTOR, NPN



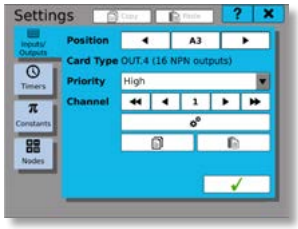
DIGITAL OUTPUT
16x open collector, NPN

RATE
< 5 ms

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



Select the Position of the card to be set. Use buttons ◀ ▶ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◀◀ ◀ ▶ ▶▶ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Limit MIN	setting the lower limit for switching
Limit MAX	setting the upper limit for switching
Hysteresis	shows the hysteresis range around the limit (on both sides, Limit. ±1/2 Hysteresis)
Activation delay	0,0...99,9 s setting the activation output delay
Deactivation delay	0,0...99,9 s setting the deactivation output delay
Permit MIN	☑ output is evaluated by the setting Limit MIN and MAX
Permit MAX	☐ output is set in binary form directly from the node
Inverted	☑ relay is in the active state OFF ☐ relay is in the active state ON

Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

OUT.04
TECHNICAL DATA

OUTPUTS

Number	16
Type	Open collectors, NPN ON/OFF, PWM
Maximum switching U and I	30 VDC/300 mA
Maximum switching power	9 W
Rate	< 5 ms

TECHNICAL SPECIFICATION

Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

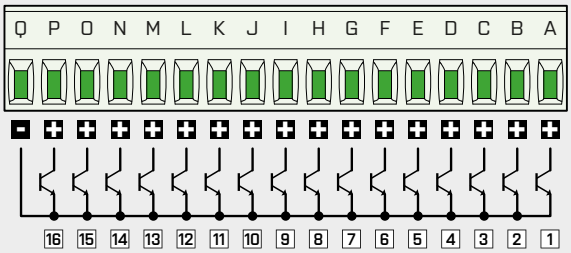
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. 300 V (ZI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

OUT.04
CONNECTION

OUT.4



OUT.04
ORDER CODE

OUT.04		- ☐
Specifications	Used only for customised versions	00

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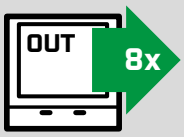
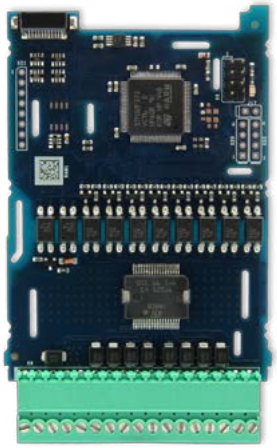
OUT.05
8x OPEN COLLECTOR, PNP

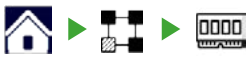


DIGITAL OUTPUT
8x open collector, PNP

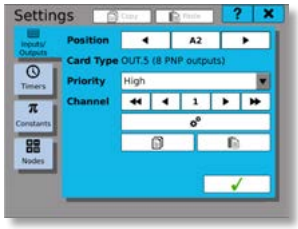
RATE
< 5 ms



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING



Select the Position of the card to be set. Use buttons ◀ ▶ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◀◀ ◀ ▶ ▶▶ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

Limit MIN	setting the lower limit for switching
Limit MAX	setting the upper limit for switching
Hysteresis	shows the hysteresis range around the limit (on both sides, Limit. ±1/2 Hysteresis)
Activation delay	0,0...99,9 s setting the activation output delay
Deactivation delay	0,0...99,9 s setting the deactivation output delay
Permit MIN	☑ output is evaluated by the setting Limit MIN and MAX
Permit MAX	☐ output is set in binary form directly from the node
Inverted	☑ relay is in the active state OFF ☐ relay is in the active state ON

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

OUT.05
TECHNICAL DATA

OUTPUTS

Number	8
Type	Open collectors, PNP ON/OFF, PWM with protection against short circuit and overload
Maximum switching U and I	12...30 VDC/700 mA
Maximum switching power	21 W
Rate	< 5 ms

TECHNICAL SPECIFICATION

Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

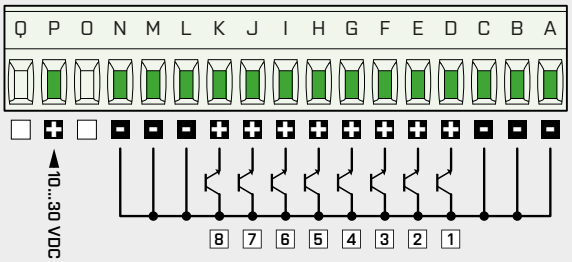
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm²
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

OUT.05
CONNECTION

OUT.5



OUT.05
ORDER CODE

OUT.05		- ☐
Specifications	Used only for customised versions	00

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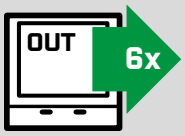
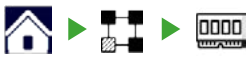
OUT.06
6x SSR OUTPUT



DIGITAL OUTPUT
6x SSR

RATE
< 5 ms

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully in the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

OUT.06
TECHNICAL DATA

OUTPUTS

Number	6
Type	SSR
Maximum switching U and I	250 VAC / 1 A
Maximum switching power	250 VA
Rate	< 5 ms

TECHNICAL SPECIFICATION

Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

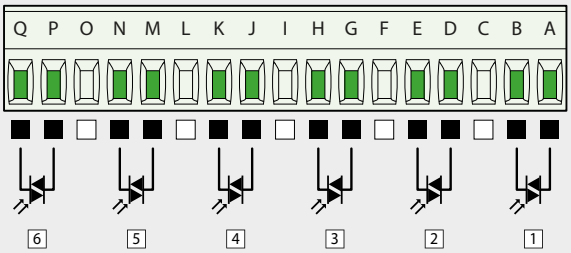
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. 300 V (ZI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

OUT.06
CONNECTION

OUT.6



OUT.06
ORDER CODE

OUT.06		- ☐
Specifications	Used only for customised versions	00

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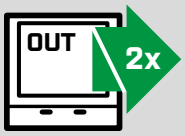
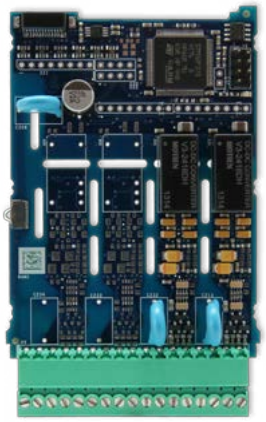
AO.01
2x ANALOGUE OUTPUT, ISOLATED



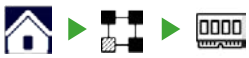
ANALOGUE OUTPUT
0...5/10 V/±5/±10 V
0...5/0...20 mA/4...20 mA

RATE
< 5 ms

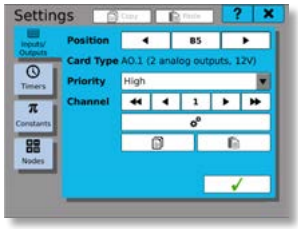
ACCURACY
0,1 % of range



CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

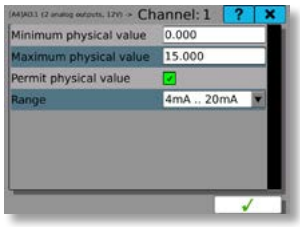


Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

Min. physic. value	value that corresponds to the minimum selected range of the input values
Max. physic. value	value that corresponds to the maximum selected range of input values
Permit physical value	☑ output is evaluated according to the setting Min. and Max. value ☐ output is set on electrical value directly from the node
Range	0...5 mA ▸ 0...20 mA ▸ 4...20 mA ▸ 0...5 V ▸ 0...10 V ▸ ±5 V ▸ ±10 V

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

AO.01
TECHNICAL DATA

OUTPUTS

Number	2, isolated
Type	analogue - universal
Range	0...5/10 V, ±5/±10 V [1] 0...5/0...20 mA, 4...20 mA [2]
TC	50 ppm/°C
Accuracy	0,1 % of range
Response rate	< 5 ms
Resolution	16 bitů
Leads resistance compensation	> 500 Ω

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

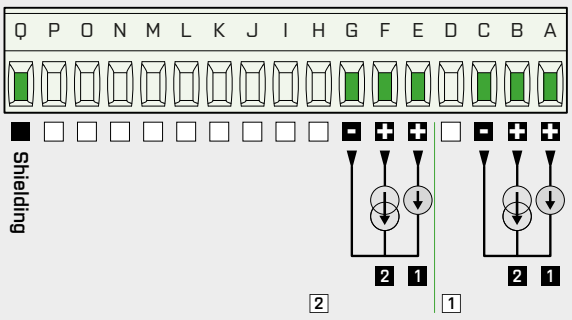
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between outputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) output/output - 150 V (ZI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

AO.01
CONNECTION

AO.01



1 Analog output - voltage
2 Analog output - current

AO.01
ORDER CODE

AO.01		- ☐
Specifications	Used only for customised versions	00

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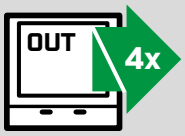
AO.02
4x ANALOGUE OUTPUT, ISOLATED

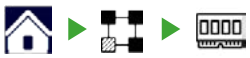


ANALOGUE OUTPUT
0...5/10 V/±5/±10 V
0...5/0...20 mA/4...20 mA

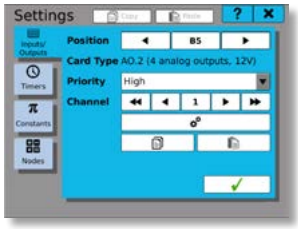
RATE
< 5 ms

ACCURACY
0,1 % of range

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

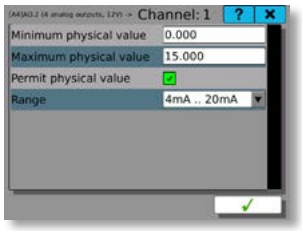


Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set



Button ⚙ is used to navigate to the settings of the selected channel.

Min. physic. value	value that corresponds to the minimum selected range of the input values
Max. physic. value	value that corresponds to the maximum selected range of input values
Permit physical value	☑ output is evaluated according to the setting Min. and Max. value ☐ output is set on electrical value directly from the node
Range	0...5 mA ▸ 0...20 mA ▸ 4...20 mA ▸ 0...5 V ▸ 0...10 V ▸ ±5 V ▸ ±10 V

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully into the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

AO.02
TECHNICAL DATA

OUTPUTS

Number	4, isolated
Type	analogue - universal
Range	0...5/10 V, ±5/±10 V [1] 0...5/0...20 mA, 4...20 mA [2]
TC	50 ppm/°C
Accuracy	0,1 % of range
Response rate	< 5 ms
Resolution	16 bitů
Leads resistance compensation	> 500 Ω

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	5 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

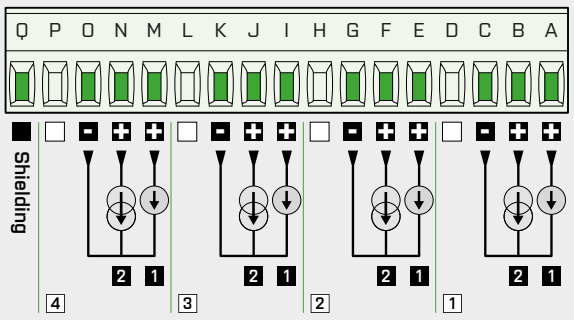
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between outputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) output/output - 150 V (ZI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

AO.02
CONNECTION

AO.02



[1] Analog output - voltage
[2] Analog output - current

AO.02
ORDER CODE

AO.02		- ☐
Specifications	Used only for customised versions	00

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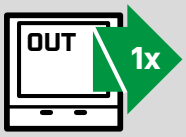
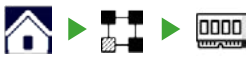
DO.01
1x PROFIBUS DP



DATA OUTPUT
PROFIBUS DP

RATE
< 12 MBit/s

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully in the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

DO.01
TECHNICAL DATA

OUTPUT

Number	1, isolated
Type	digital
Protocol	PROFIBUS DP
Rate	9.6 kBit/s...12 000 kBit/s
Connection	9-pin SUB-D (Canon) or terminal board

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

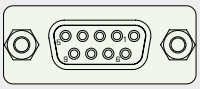
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2, Cannon 9
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

DO.01
CONNECTION

DO.1



Pin asignment

3 **B:** RxD/TxD-P data reception/transmission, positive
4 **CNTR:** signal for repeater control
5 **DGND:** reference potential for data and +5 V
6 **VP:** +5 V
8 **A:** RxD/TxD-N data reception/transmission, negative

DO.01
ORDER CODE

DO.01		- ☐
Specifications	Used only for customised versions	00

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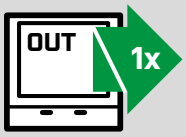
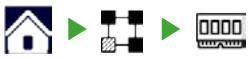
DO.02
1x PROFINET



DATA OUTPUT
PROFINET

RATE
< 12 MBit/s

CARD SETTINGS



THE FOLLOWING PARAMETERS ARE EDITED IN THE SETTING

Select the Position of the card to be set. Use buttons ◂ ▸ to scroll among the fitted cards.

Type of the card fitted in the specified position

Data transfer priority of the selected card. Bigger number of plugged-in cards slows down data flow on the bus. It can be optimized by setting priorities. The real value of the data flow can be then controlled in diagnostics. The maximum achievable data flow in slots A is 1100 frames/s, in slots B 550 frames/s.

Channel to be set. Use buttons ◂◂ ◂ ▸ ▸▸ to scroll among the channels. Number of possible selectable channels is determined by the card, which is being set

Button ⚙ is used to navigate to the settings of the selected channel.

INSTALLATION OF A NEW CARD

When installing a new card, always make sure the device is disconnected from the power supply!

1. Remove the back cover and break off the blinder of a vacant card position. It is recommended to place analogue cards into faster slots in column „A" (Speed of the bus: Slot „A" 1 ms, Slot „B" 2 ms).
2. Remove the card from the shipping container and from the ESD packaging and insert it carefully in the selected slot until you feel a gentle snap
3. Replace the back cover and turn the device on
4. Setting of the card is described in the preceding paragraph

DO.02
TECHNICAL DATA

OUTPUT

Number	1, isolated
Type	digital
Protocol	PROFINET
Rate	9.6 kBit/s...12 000 kBit/s
Connection	2x RJ 45

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

POWER SUPPLY

Power supply	3,3 VDC, 24 VDC
Consumption	max. 150 mA

MECHANIC PROPERTIES

Dimensions	65 x 98 mm
Installation	to OMR 700

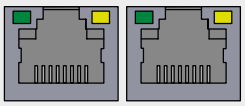
OPERATING CONDITIONS

Connection	connector terminal board, cross section < 1,5 mm^2
Working temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP00
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC over 1 min between bus and inputs 1 kVAC over 1 min between outputs
Insulation resistance*	for pollution degree II, measuring cat. III. Input/Bus - 300 V (PI), 150 (DI) output/output - 150 V (ZI), 100 (DI)
EMC	EN 61326-1 (Industrial use)
Seismic resistance	IEC 980: 1993, čl.6

* PI - Primary insulation, DI - Double insulation

DO.02
CONNECTION

DO.2



Port 1 Port 2

DO.02
ORDER CODE

DO.02		- ☐
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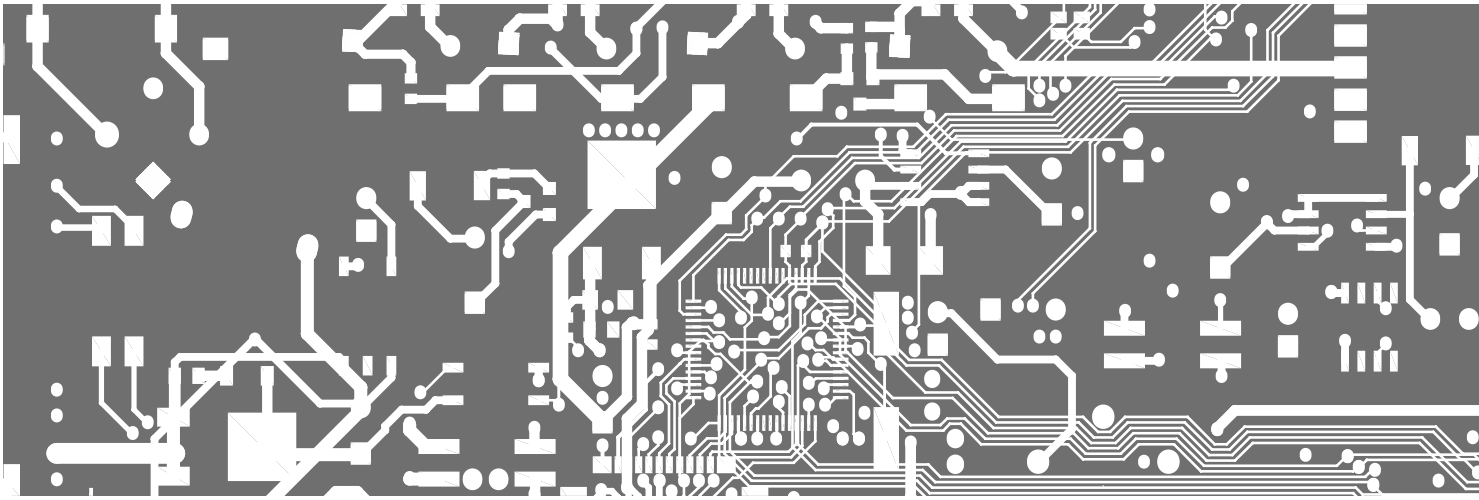

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