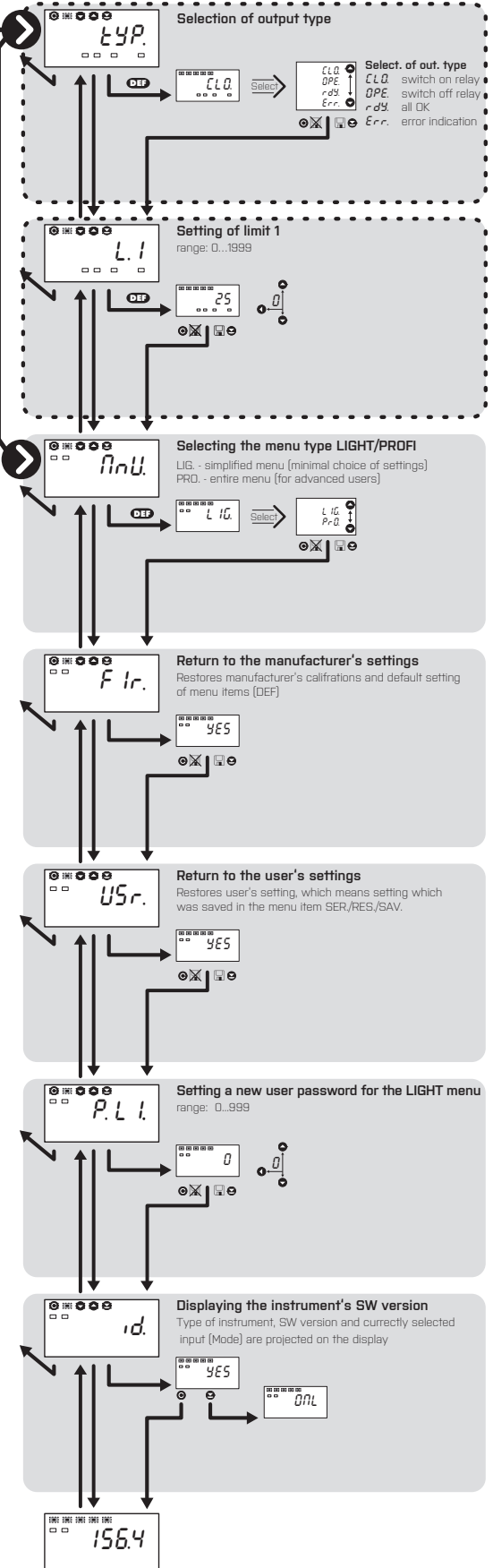
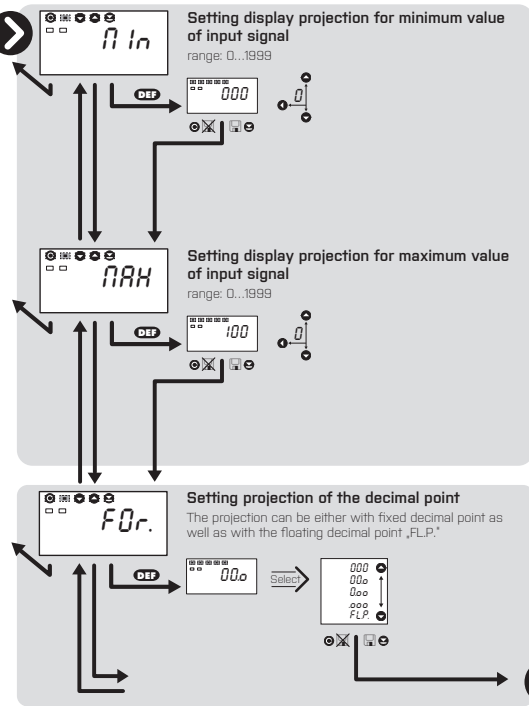
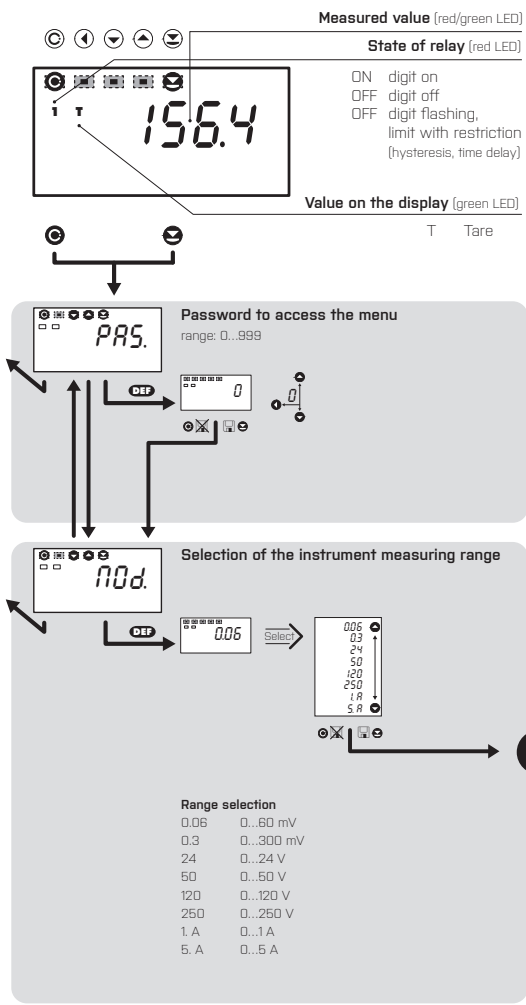
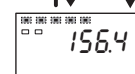


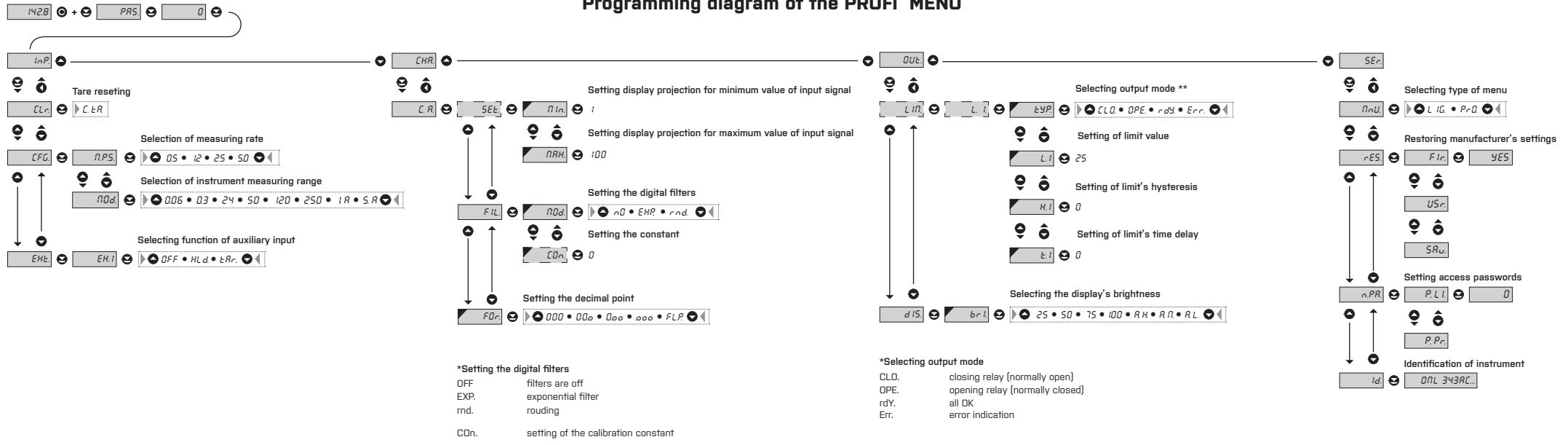
Programming diagram of the LIGHT MENU



These menu items can be accessed only if the instrument contains corresponding options



Programming diagram of the PROFI MENU



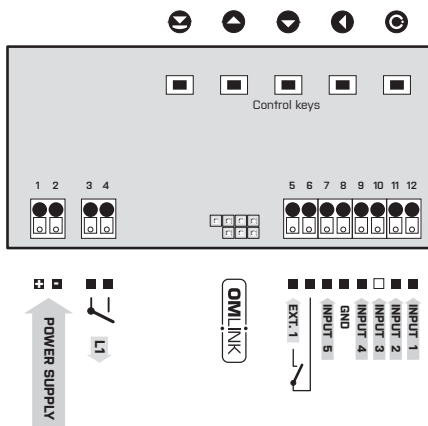
ERROR STATEMENTS

ERROR	CAUSE	ELIMINATION
E.dU	number is too small (large negative) to be displayed	change DP setting, channel constant
E.dD	number is too large to be displayed	change DP setting, channel constant
E. u	Input quantity is smaller than permitted input quantity range	change input signal value or input (range) setting
E. iD	Input quantity is larger than permitted input quantity range	change input signal value or input (range) setting
E.H _u	a part of the instrument does not work properly	send the instrument for repair
E.E.E.	data in EEPROM corrupted	perform restoration of manufacture setting, upon repeated error statement send instrument for repair
E.dE	data in EEPROM outside the range	perform restoration of manufacture setting, upon repeated error statement send instrument for repair
E.C.L.	memory was empty (presetting carried out)	upon repeated error statement send instrument for repair, possible failure in calibration
E. i _n	disconnected input circuit	check wiring

Upon delay exceeding 60 s the programming mode is automatically discontinued and the instrument itself restores the measuring mode

CONNECTING AND CONTROLLING OF INSTRUMENT

TECHNICAL DATA



Power supply cord should not be near low voltage input signal leads.

Contactors, large electrical motors and other power elements should not be operated in the vicinity of the instrument.

Input signal leads (measured value) should be separated from all power devices. If this is not possible to provide, the input leads have to be shielded and the shielding grounded (terminal E).

Our instruments are extensively tested and they comply with relevant standards for use in industrial environment, however, adhering to the above mentioned measures is strongly advised.



CAUTION!
 Always make sure the input signal is disconnected before setting up the instrument!
 Risk of electric shock!

MEASURING INPUT

INPUT	AC	Range	Impedance	Input
	0..60 mV	0..300 mV	1,2 kΩ	Input 4
		0..24 V	1,2 kΩ	Input 4
	0..50 V	0..120 V	0,5 MΩ	Input 2
		0..250 V	1 MΩ	Input 1
	0..1 A	0..250 V	0,5 MΩ	Input 2
		0..1 A	1 MΩ	Input 1
	0..5 A	30 mV	30 mV	Input 5
		150 mV	150 mV	Input 5

INSTRUMENT'S ACCURACY

TK	50 ppm/°C
Accuracy	±0,3% of the range + 1 digit
Rate	0,5..5 measurements/s
Overload capacity:	10x (t < 30 ms) - not for > 250 V and 5 A; 2x
Digital filters	exponential filter, rounding
Functions	Hold - "freezing the measured value", Lock - blocking the control buttons, Tare (upon contact)
External inputs	1, with the possibility of assigning various functions in the instrument's menu
OM Link	Company communication interface for operating, setting and updating of instruments
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40% rv.

PROJECTION

Display	1999, red or green 7-segment LED, digit height 14 mm
Projection	0..1999
Decimal point	setting - in menu
Brightness	0%, 25%, 50%, 75%, 100% (selectable in the menu) or automatically at three steps Auto. H, Auto. M and Auto. L

COMPARATOR

Type	digital, menu selectable
Mode	Hysteresis, Once, Pulse
Limit	0..1999
Hysteresis	0..1999
Delay	0..99,9 s
Output	1x relay with a switch on contact (Form A), (250 VAC/30 VDC, 3 A)* 1x open collector; (30 VDC/100 mA)*
Relay	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300

POWER SUPPLY

10...30 VDC/24 VAC, ±10 %, 3 VA, PF ≥ 0,4
I _{max} < 45 A/11 ms, isolated

MECHANICAL PROPERTIES

Material	Noryl GFN2 SE1, incombustible UL 94 V-0
Dimensions	98 x 48 x 30 mm
Panel cut out	92 x 44 mm

ENVIRONMENTAL

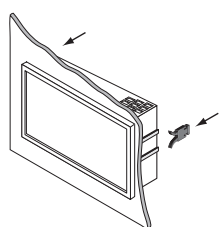
Connection	terminal board, section < 1,5 mm ²
Stabilization period	15 minutes after switch on
Working temperature	-20°.. 60°C
Storage temperature	-20°.. 85°C
Cover	IP65 (front panel only, with the silicone gasket installed), rear of the instrument is open!
Provided	security class I
El. safety	EN 61010-1, A2
Dielectric strength	2,5 kVAC after 1 min between supply and input 4 kVAC after 1 min between supply and relay output
Insulation resistance*	for pollution degree II, measuring cat. III power supply > 300 V (PI) input, output > 300 V (DI)
EMC	EN 61326-1 (Industrial area)

PI - Primary insulation, DI - Double insulation

MOUNTING AND DIMENSIONS

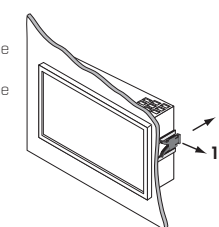
Mounting the instrument

- insert the instrument into the panel cutout
- insert the fixing sliders into side grooves of the enclosure as shown
- press the sliders tightly against the rear side of the panel

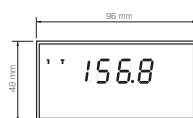


Removal of the instrument

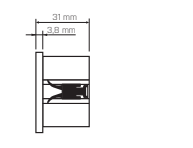
- pry the rear end of the sliders away from the instrument's enclosure
- slide the fixing sliders out of side grooves of the enclosure as shown
- remove the instrument from the panel cutout



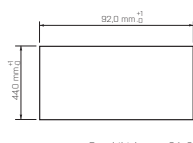
Front view



Side view



Panel cut



Panel thickness: 0,1..3,5mm



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