LP4 – Auto Alimenté par la boucle 4-20mA

LOOP POWERED PROCESS METER



Loop powered, process meter, excellent reading

Loop powered digital panel meter, in 96x48mm housing (1/8DIN standard), to connect to 4/20mA loop signals. The instrument is powered from the signal loop. Excellent reading with 7 segment red color leds. Configurable scaling from -1999 up to 9999, with decimal point.

Front protection IP50 with optional IP65. Connections with plug-in screw terminals.

Configurable fast access menu at front key '**UP**' (5) to access maximum and minimum memories, and 'measure' function to read the actual 'mA' input signal at terminals. 'Square root' function to work with differential pressure flow meters. 'Field correction' function and several display filters to tune reading stability. Configuration with simplified scaling. 'Password' function to block access to the configuration menu.

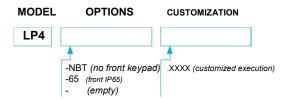
Designed for industrial environment, for a wide range of applications, reduced cost, excellent quality and optional customization.

1. TECHNICAL SPECIFICATIONS

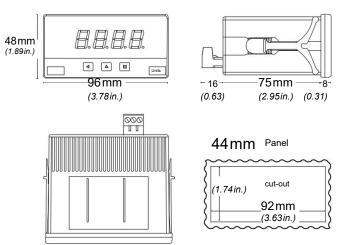
Digits and reading			
number of digits	4		
type	7 segment led		
color	red		
digit height	14mm		
reading	9999 / -1999		
decimal point	configurable X.X.X.X.		
overrange/underrange	flash on display		
display refresh	2 times/second		
acquisition per second	2 acquisitions/second		
memory retention	values for max. and min. reading are stored every 10 minutes		
Input signal			
signals accepted	4/20 mA (2 wire)		
maximum oversignal	30 mA (signals above this value can destroy the input circuit)		
accuracy	±0.1% F.S. (±1count)		
thermal drift	<150ppm/°C		
step response	1500mSec. (0% to 99% signal)		
Power supply			
type	loop powered from the input signal		
minimum current to power-up	3.8mA		
voltage drop at terminals	<11Vdc maximum		
wires	0.5mm ₂ to 2.0mm ₂ (AWG20 to AWG14)		
Configuration			
front keypad	3 push buttons		
Mechanical			
mounting	panel mount		
IP front protection	IP50 standard (IP65 optional)		
IK impact protection	IK06		
connections	plug-in screw terminals (pitch 5.08mm)		
housing material	ABS, polycarbonate (V2)		
weight	<110 grams		
front size	96x48mm (1/8DIN standard)		
panel cut-out	92x44mm		
deep	91 mm including terminals		

Temperature				
operation	from 0 to +50°C			
storage	from -20 to +70°C			
'warm-up' time	15 minutes			
Packaging				
size	116x114x50mm			
material	cardboard			
weight	<150 grams			

2. HOW TO ORDER



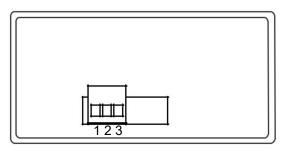
3. DIMENSIONS (mm / inches)





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4. CONNECTIONS: INPUT SIGNAL





Detail of the plug-in screw terminals provided with the instrument. The instrument is provided with all terminals needed, both male and female.

Table 1 | INPUT signal connections

INPUT	Input terminals			Connections
signal	1	2	3	
4/20 mA active	mA+ (in)	not connected	mA- (out)	1 2 3

5. FUNCTIONS INCLUDED

'Square root'

Apply a square root to the reading, for example when working with differential pressure flow meters.

'Fast access'

Use front key '**UP**' (5) to have a fast access to memory of maximum and minimum, and to '*measure*' function.

Field correction

Apply the actual input signal to the 'display low' or 'display high' pa-rameter.

'Measure'

Visualize the actual signal at the input, directly in milliamperes, with-out scaling, for example for troubleshooting purposes.

'Memory of maximum and minimum.'

Visualize the memory of maximum and minimum reading since the last reset.

'Simplified scaling'

Simplified scaling, only with 'display low' and 'display high' parame-ters. Access to 'input high' and 'input low' is still available at the 'tools' section.

'Password'

Block access to the configuration menu, to non authorized operators.