Labom

LED on-site indication programmable Type series PH1520



Features

- LED on-site indication suitable for stainless steel field housing Ø 60 mm
- Display: LED with 7-segments, 8 mm high
- Input: 4...20 mA, current loop
- Display range: -999...9999, freely adjustable
- With 3 keys programmable
- Minimum/Maximum memory
- Digit (°C / °F, bar, mbar, . . .)
- Encapsulated electronics

Options

Explosion protection

Application

The LED on-site indication is for use in the whole range of measurement technics where the standard signal of 4..20 mA is available. The display can be adjusted continuously, ensuring good readability of the 7-segment LED display from any viewing angle. The 3-button control panel makes it easy to assign display parameters.

Techn. Data

Case design

stainless steel with thread M52x1 suitable for LABOM field housing Ø 60 mm case: material stainless steel window: Macrolon degree of protection: IP 67

Input

4...20 mA, Ri < 160 Ohm (U < 3.2 V)

Accuracy

resolution

-999...+9999 digit
± 0.2 % of measuring range
± 1 digit

temperature drift: 100 ppm/K

Connection diagram



LED indicating unit adjustable

Indication

red LED with 7-segments, 8 mm high 4 digits = indication 9999 overflow/underflow to HI/to LO indication time: 0,1s - 1s - 10s (adjustable) el. connection: with plug-in connector up to 1.5 mm² display continuously adjustable

Ambient conditions

operating temperature storage temperature

Programmable features

- · range of indication
- · indication time
- · unit (inscription as in writing)
 - C, F
- bar, mbar others upon request

Ex-protection

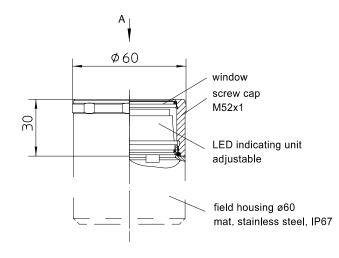
EC-Type Examination ZELM 05 ATEX 0252 (II 2G Ex ia IIC T6

Design

0...+60 °C

-20...+80 °C

The LED on-site indication is suitable for all LABOM field housings \emptyset 60 mm.

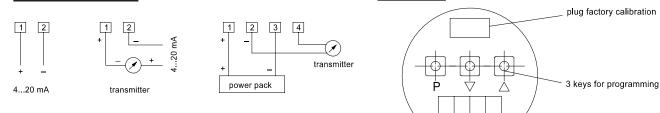


Connection diagram

Operating

1 2 3 4

connection plug



Program table for programming the indicator

Р	description	range	factory set 1
0	Calibration mode	0/1	1
	0 = sensor calibration (one calibration point can be set)		
	1 = programming of indication (4/20 mA)		
1	Final value (Programming indicated value at 20 mA, e.g 600)	-9999999	250
2	Initial value (Programming indicated value at 4 mA, e.g. 100)	-9999999	0
3	Selection of decimal point or unit	0	°C
	(Programming a unit the indication in the display	0.0	
	shifts to the left)	0.00	
		0.000	
4	Indication and reading rate in seconds	0,510,0	1,0
5	Offset base characteristic (the ± range	0100	1
	where 0000 is indicated)		
50	Locking of programming (activating/deactivating	00009999	0000
	locking function for programming)		
51	Releasing code (definition of release code for the	00009999	0000
	programming locking function under PN50)		
100	Number of calibration setpoints (calibration points for sensor	030	0
	calibration only, calibration points reduce the measuring rate)		
101130	Calibration points	-9999999	0

¹ at factory setting

Programming of indication

- 1. Connect the instrument according to the wiring diagram.
- 2. Switch power of the current loop on (current between 4...20 mA). This is followed by an initalisation and a segment test with subsequent switching ot the operation mode.
- 3. Press the key P, indication of program number P 0
- 4. Change the program number by simultaneous pressing of **P** and ▲ -key or **P** and ▼ -key.
- 5. With the desired program number being chosen, go to the allovated value by pressing the P-key.
- 6. Short pressing of P results in a change of digit erfolgt. The value of the chosen digit is changed by pressing the or 🔺 or 💌 .
- 7. Storing of the new settings is effected by pressing the P for approx. 2 sec. This procedure is acknowledged by transversal bars in the display.
- 8. If no other key is actuated, the unit switches to its operation mode after seven seconds.

Additional key functions in standard mode for indication of min/max values

The key A serves for indicating the value of the Max memory in the display for some seconds. The key **v** serves for indicating the value of the Min memory in the display for some seconds. Simultaneous pressing of the A and V keys erases the value of the memory shown in the display.

LED on-site indication PH1						
case design	suitable for field h		A1]		
	not adjusted, without unit on label				F11]
	adjusted (please	indicate)				1
	initial value					
	final value					
programming of	indication time	standard 1s				
indication		(0,1s - 1s - 10s)			F12	
	display unit	°C or °F				
		bar or mbar				
		without				
		others upon request				
Additional feature	es (to be indicated	l if required)				
Ex-proof design	🕼 🕼 🛙 🕼 🕼 🕼	IC T6; ZELM 05 ATEX 0252				S6
						
order code (example):					F11	