

Current loop display (flush-type)

Characteristics



Input: 4...20 mA (current loop)
 Option(external supply): 4...20 mA / 0...20 mA / 0...10 V

Supply: out of current loop
 Option: 230 VAC / 115 VAC / 24 VDC (no galvan. insulation)

Limit contacts:
 2 open collectors (36 VDC, 150 mA)
 2 relays: maximum 5 A (125 VDC / 250 VAC)

Display range maximum: -999...9999

Adjustment: with 3 keys

Memory: minimum/maximum

Unit: dimension strip (fixed under front foil)
 Option: 4th digit programmable as unit (°C/°F)

Enclosure: 96x48 flush-type
 (installation depth: approx. 55 mm)

Protection: IP 65 (front) / IP20 (back)

Technical data

Input

Current loop: 4...20 mA
 Input resistance: Ri : approx. 450 ohms (U = 9 V)
 Ri : approx. 850 ohms (U = 17 V)

Voltage across adjustable with jumper

With external supply:
 4...20 mA Ri : approx. 10 ohms
 0...20 mA Ri : approx. 10 ohms
 0...10 V Ri : approx. 100 kohms

Accuracy

Resolution: -999...+9999 digit
 Measuring fault: ±0,2% of measuring range, ±1 digit
 Temperature drift: 100 ppm/K
 Measuring principle: ramp conversion

Indication

Display: 7 segments, 14 mm high, red, 4 digits
 Overflow/Underflow: to HI / to LO
 Time of indication: 0,1 s - 1 s - 10 s (adjustable)
 Memory: minimum / maximum values

Limit contacts

Electronically: 2 open collectors (36 VDC, 150 mA)
 leakage current: approx. 0,1 mA

Mechanically: 2 relays (changeover contact)
 switching voltage: minimum: 10 V AC/DC
 maximum: 125 VDC / 250 VAC
 switching current: VA: 0,1...1250 / W: 0,1...120
 continuous current: 5 A

Indication: limit value reached: LED red
 limit value not reached: LED green

Adjustment: limit value, hysteresis value and delay times
 with 3 keys

Fai-safe function: voltage supply "ON" = contacts active

Ambient conditions

Operating temperature: 0...+60°C
 Storing temperature: -20...+80°C

Supply

Current loop: 4...20 mA (9 or 17 VDC voltage across, adjustable with jumper)
 Direct current: 24 VDC ±5% (maximum 50 mA) (without galvanical insulation)
 Alternating current: 115/230 VAC, power consumption: 1,5 VA

Mechanics

Enclosure: 96x48x30 mm (empty)
 96x48x55 mm (with terminals)
 with plastic clamps in panel

Mounting : polycarbonate, self-extinguishing (UL94 V-0)

Material enclosure: black
 Color: black
 Protection: front: IP 65 (with sealing)
 back: IP 20

Weight: approx: 170 g (type 115/230 VAC)
 Connection: plug-in terminal strip up to 1,5 mm² interlockable

Programmable features

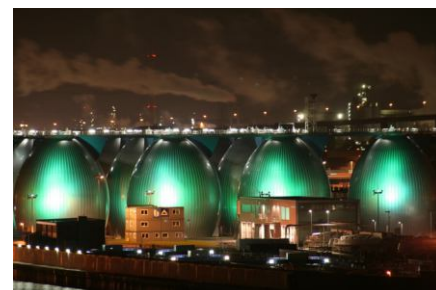
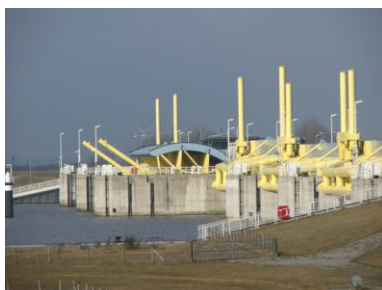
range of indication / time of indication / decimal point / unit (°C/°F) / stabilisation zero point / limit value 1 / hysteresis value 1 / delay times 1 / limit value 2 / hysteresis value 2 / delay times 2 / locking of programming / calibration points / TAG number

Possibilities of indication

Programming the decimal point and unit the following scope of representation is possible:
 xxxx / xxx.x / xx.xx / x.xxx / xxx°C / xxx°F

Applications

The current loop display is particularly for use in ranges where a standard signal is still available. With its programmable limit value contacts the device is suitable in the whole industrial area.



Photos: www.pixelquelle.de

Ordering code

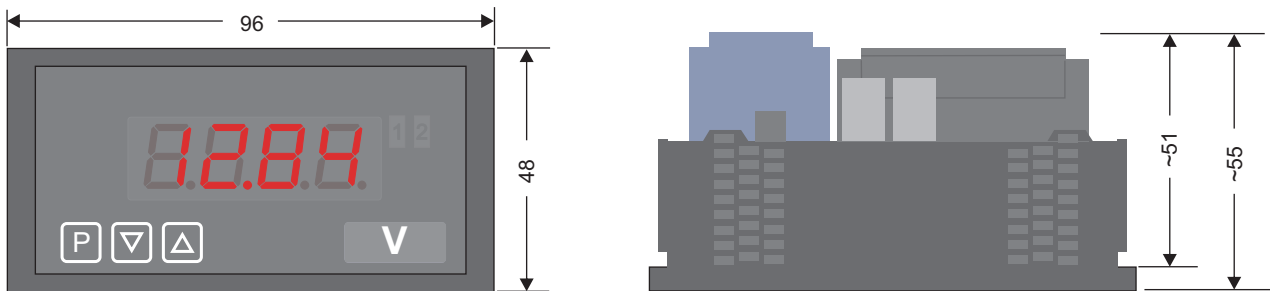
C	B	X	X	X	X	X	X	-	X	X	X
---	---	---	---	---	---	---	---	---	---	---	---

Supply:	current loop (only 4...20 mA)	0									
	230 VAC	1									
	115 VAC	2									
	24 VDC	3									
Input:	4...20 mA		0								
	0...20 mA		1								
	0...10 V		2								
Limit contacts:	2 open collectors (with current loop)			1							
	2 relays (with external supply)			2							
Enclosure:	96x48 flush-type				0						
Connection:	plug-in terminal strip					0					
Dimension strip:	please indicate						0				
Programming:	without (factory-set)*								0		
	with (please indicate)**								1		
Other / accessories:	special model										0
	programming set (adaptor, cable, software)										1

*factory-set: indication: 0...250°C / time of indication: 1 s / decimal point: without / unit: °C / stabilisation zero point: 1 / limit value 1: 110°C / delay time: 0 s / hysteresis value 1: 90°C / delay time: 5 s / limit value2: 40°C / delay time: 0 s / hysteresis value 2: 60°C / delay time: 1 s / locking of programming: without / calibration points: without / TAG number: 0

**programming: the possibilities of the technical data can be selected

Dimensions



Connection

