

Informator with microprocessor

4-digit LED-display with and without limit contacts

Type: attachable indicator panel mount case



Description

Indicators are electronic devices designed for digital display of sensor signals.

The indicators can be set to the desired measuring range on site by program-control. The programming is done via flush mounted keys below the front cover.

A programmable damper ensures a precise readability of the indicating value in case of pulsation or if pressure peaks occur.

Attachable indicator

The attachable indicator provides an ideal solution for local indication with simultaneous signal transmission. Due to its universal programmability and simple mounting the attachable indicator can be retrofitted even to pressure or temperature sensors which are already in use. The LED-type enables process monitoring by a built in limit contact.

Panel mount case

The multitude of feasible input signals and the compact design make this indicator suitable for various applications.

Limit contacts provide information on the status of the process being monitored.

Features

- O Freely programmable by microprocessor
- O Range setting on site, no external calibration equipment needed

Attachable indicator

- O for sensors with 4...20 mA output and rectangle plug acc. to EN 175 301-803, type A
- O one limit contact: contact function and hysteresis freely programmable
- O protection type IP65
- O simple handling

Panel mount case

- O input freely selectable: 0/4...20 mA, 0...10 V, 0...1 V
- O input PT 1000, PT 100 or thermocouple type K
- O two limit contacts: contact function and hysteresis freely programmable
- O compact design

Applications

chemical and petrochemical industry,

pharmaceutical industry,

food and beverage

machine tool and injection moulding presses,

development and testing fields

Model: E1999

Technical data

Model	E1999X100	E1999X200	E1999X500
Туре	attachable indicator	attachable indicator	panel mount case
Display – height – range	7-segment-LCD-display 10 mm -19999999 (4 digits)	7-segment LED-display 7 mm -19999999 (4 digits)	7-segment-LED-display 10 mm -19999999 (4 digits)
 accuracy conversion rate 	0,2% of F.S. ± 1 digit 5 /sec.	0,2% of F.S. ± 1 digit 50 / sec.	0,2% of F.S. ± 1 digit 100/sec. (4/sec for temperature measurements)
Measuring ranges	program controlled adjustable	program controlled adjustable	program controlled adjustable
Input	420 mA, 2-wire	420 mA, 2-wire 0 10 VDC on request	selectable: 420 mA 020 mA 010 VDC 01 VDC 02 VDC PT1000 /2-wire PT100 /3-wire thermo couple type K
 input resistance 			$\begin{array}{ll} \mbox{for current input} & 50 \ \Omega \\ \mbox{for voltage input} \\ 01 \ V & 30 \ k\Omega \\ \mbox{for voltage input} \\ 010 \ V: & 300 \ k\Omega \end{array}$
 temperature influence 	≤ 0,1% of F.S./10K	≤ 0,1% of F.S./10K	≤ 0,25% of F.S./10K
Filter function	selectable in 3 steps	selectable in 3 steps	2/3 sec. selectable
Limit contacts – function		1 transistor switching output n-switching limit contacts as Hi or Low programmable by selecting the	2 transistor switching outputs - n-switching limit contacts as Hi or Low programmable by selecting the
 switching point 		hysteresis program controlled adjustable within the adjusted display range	hysteresis program controlled adjustable within the adjusted display range
hysteresisload		program controlled adjustable within the whole display range -	program controlled adjustable within the whole display range Low-side 28 VDC / 1A High-side Ub / 200 mA
 response time 		-	adjustable from 099 sec.
Power supply power consumption voltage drop 	sensor is supplied by the 420 mA current loop max. 40 mA 3 V	sensor is supplied by the 420 mA current loop - <5,5V	928 VDC max. 30 mA
Electrical connection	plug acc. to EN 175 301 803 type A	plug acc. to EN 175 301 803 type A	screw terminals, max. 1,5 mm ²
Temperature ranges	050 °C	-20+50°C	-2050 °C
Protection type	IP 65	IP 65	front panel IP54; clamps IP20
Case – panel cut out – material – window	Dimensions 50x50x35 ABS Polycarbonate	Dimensions 50x50x35 ABS Polycarbonate	see drawings for dimensions 21,7 ^{+0,5} x 45 ^{+0,5} (HxW) glass fibre strengthened Noryl Polycarbonate
– mounting Weight	approx. 0,08 kg	approx. 0,08 kg	spring clamp approx. 0,05 kg

Options

Model	E1999X100	E1999X200	E1999X500
Protection type		1 transistor switching output	front panel IP 65
		n-switching	

of F.S. = of full scale value

Operating and connection elements

Front view below cover



Dimensions (mm)



Panel mount case



Configuration of connection terminals model E1999X500 (panel mount case)

Connection terminal

switching output 1 switching output 2 switching output GND mains supply+Uv mains supply GND input: 0-10 V input: GND, Pt100, Pt1000 input: 0-50 mV thermo couple, Pt100 input: 0-1 V, 0-2 V, mA frequency, Pt100, Pt1000

Connection examples (panel mount case)

Signal input



Assignment right-angle plug LED- attachable indicator with switching output E1999X200



- 1. Model
- 2. Options

Subject to technical alternations