



PENTRONIC

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Originalspecifikation till
Pentronics instrumentprogram

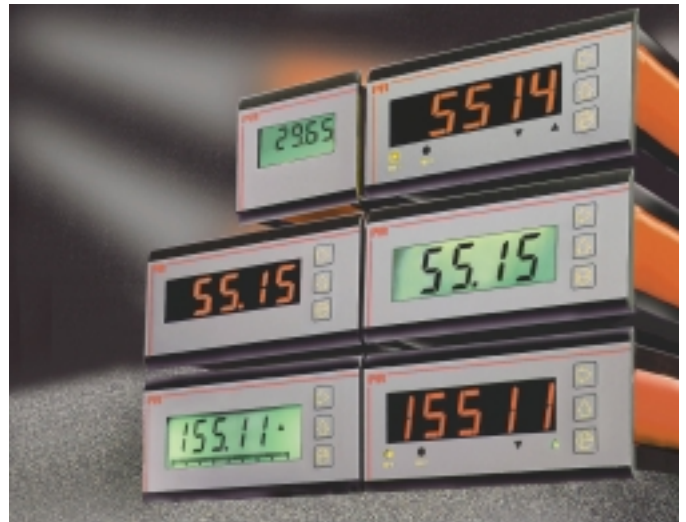
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LOOP-POWERED LCD INDICATOR



- 4-digit LCD display 48 x 96 mm
- Loop-powered
- Easy scalable from front keys
- Backlight
- Intrinsically safe EEx ia IIC T6
- IP65 enclosure from front



Application:

The PReview 5531 indicator is ideal for local readout of 4...20 mA current signals scaled directly in process units.

- PReview does not need any external power supply since the indicator is powered by the 4...20 mA loop signal.
- The EEx versions can be used for local readout in hazardous areas classified as zone 0,1, or 2.

Technical characteristics:

Input: 4...20 mA standard signal.

An adhesive label with process units may be attached to the front below the digits.

Input voltage drop is ≤ 1.5 VDC, corresponding to a feed-through resistance of 75Ω (when backlight is switched off). Reversed display readout is possible, see routing diagram on the reverse.

Programming / scaling:

Dipswitch 1, switch 1 on the rear panel is used to enable / disable the front keys thus facilitating scaling.

Scale mode: In scale mode the indicator may be scaled, see routing diagram on the reverse of this data sheet.

Run mode: In run mode the indicator will display the actual current according to the scaling.

Backlight: Dipswitch 1, switch 2 and 3 on the rear panel is used to select backlight intensity, see programming on the reverse of this data sheet. Please note that the input voltage drop is dependent on backlight intensity.

Electrical specifications:

Specification range:

(@: -20°C to $+60^{\circ}\text{C}$)

Common specifications:

Max. voltage drop at 20 mA:

Without backlight	< 1.5 VDC
Half backlight	< 6.5 VDC
Full backlight	< 10.5 VDC
Response time (0...90%)	< 1 s
Calibration temperature	20...28°C
Signal dynamics, input	15 bit
Temperature coefficient	< $\pm 0.01\%$ of span / °C
Linearity error	< $\pm 0.1\%$ of span
EMC immunity influence	< $\pm 0.5\%$
Humidity	< 95% (non-cond.)
Dimensions (HxWxD)	48 x 96 x 120 mm
Cut-out dimensions (HxW)	44.5 x 91.5 mm
Tightness (from front)	IP65
Weight	150 g

Input:

Measurement range 3.6...23 mA

Display:

Display readout ± 9999 (4 digits)
 Min. display readout (span) 0 counts
 Decimal point Programmable
 Digit height 16 mm
 Updating speed 500 ms

Ex data:

$U_{\text{max.in}}$ 45 VDC
 $I_{\text{max.in}}$ 500 mA
 $P_{\text{max.in}}$ 0.9 W ($U_{\text{max.}} \times I_{\text{max.}} \times 0.25$)
 C_{eq} 0 μF
 L_{eq} 0 mH
 Applicable in Zone 0,1, or 2

EEx approval CENELEC EEx ia IIC T6

Observed authority requirements: Standard:

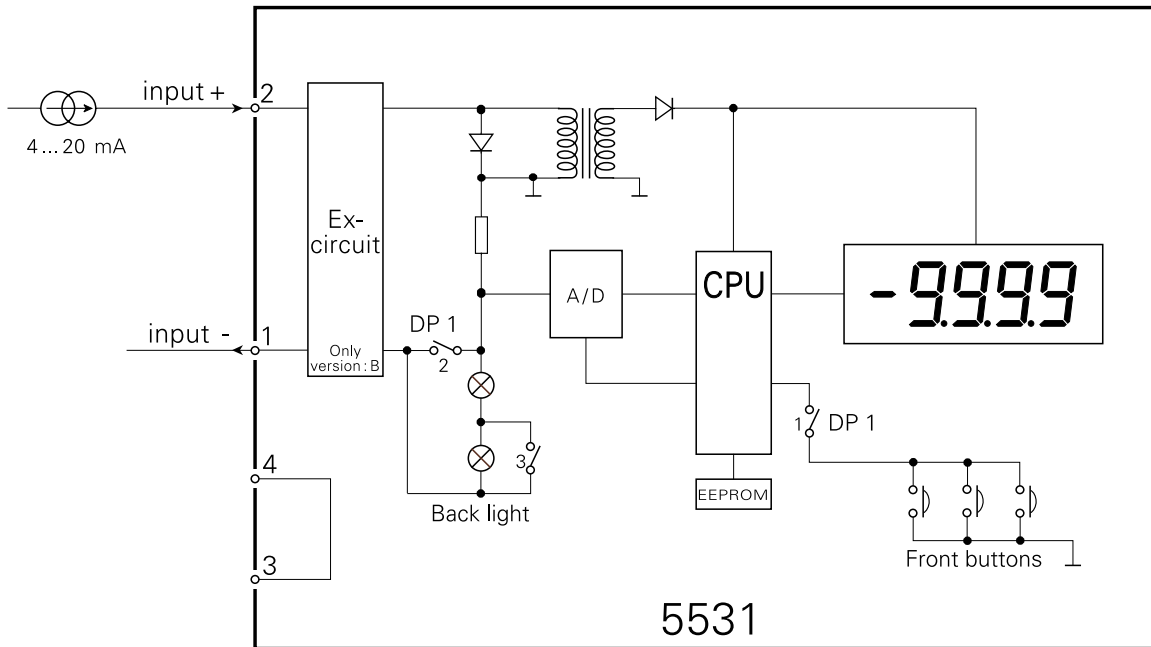
EMC 89/336/EEC Emission EN 50 081-1, EN 50 081-2
 Immunity EN 50 082-2, EN 50 082-1
 Ex 76/117/EEC EN 50 014 and EN 50 020

Of span = Of the presently selected range

Order: 5531

Type	Version
5531	Standard : A
	EEx ia IIC T6 : B

Block diagram:



Programming:

DP 1	Front keyboard	SW ON	SW OFF
	Keys locked	-	1
	Keys NOT locked	1	-

DP 1	Backlight	SW ON	SW OFF
	Off	2	-
	Half intensity	3	2
	Full intensity	-	2, 3

Routing diagram:

