



LOOP-POWERED LCD INDICATOR

ATEX  

- 4-digit LCD display 48 x 96 mm
- Loop-powered
- Easy scalable from front keys
- Backlight
- Standard and ATEX Ex version
- 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 Ex version 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:

Specifications range:

-20°C to +60°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	< $\pm 0.5\%$
Screw terminal torsion.....	0.5 Nm
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 / I.S. data:

U _j	: 45 VDC
I _j	: 500 mA
P _j	: 0.9 W
C _j	: 0 μ F
L _j	: 0 mH

EEx / I.S. approval:

DEMKO 02ATEX132122	 II 1 G
Applicable in zone	EEx ia IIC T6 Zone 0, 1 or 2

Observed authority requirements:

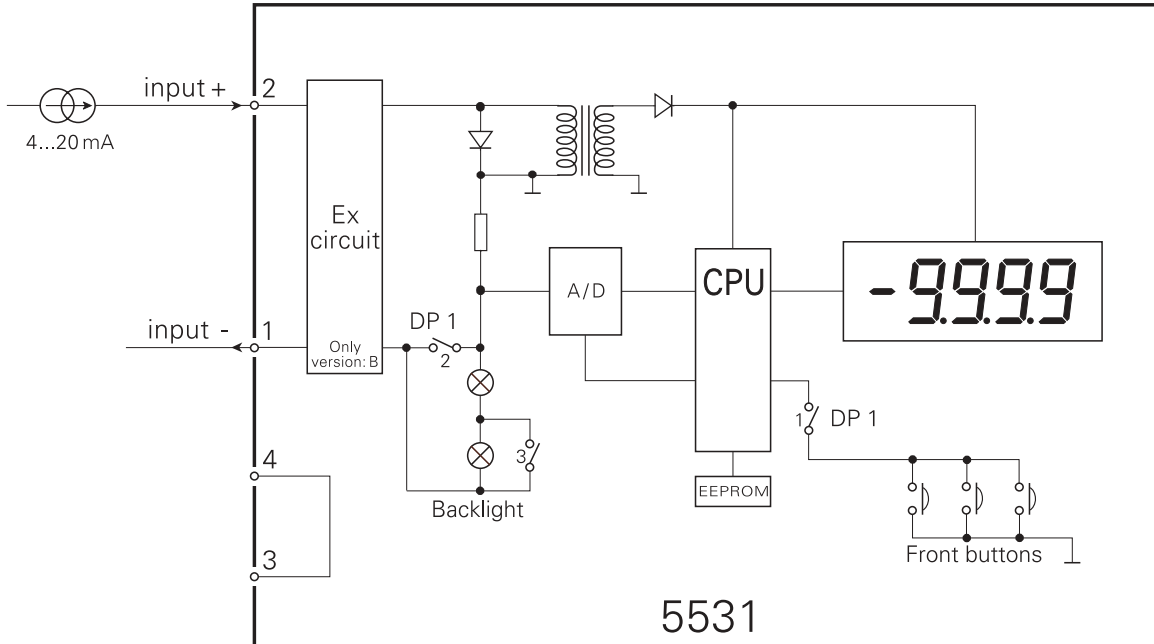
EMC 89/336/EEC Emission.....	EN 50081-1, EN 50081-2
Immunity.....	EN 50082-2, EN 50082-1
Emission and immunity.....	EN 61326
ATEX 94/9/EEC.....	EN 50014 and EN 50020

Of span = Of the presently selected range

Order: 5531

Type	Version
5531	Standard : A
	ATEX Ex : 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:

