





5531A

- 4 digit 1/8 DIN (48 x 96 mm) loop-powered LCD display
- Easy push-button configuration
- Backlit LCD display is readable in low light conditions
- Display can be mounted in the safe area or in I.S. / Ex zone 2









Application

- The 5531 indicator is powered by the 4 to 20 mA current loop and is easily scaled to display the correct process value.
- · Because it does not require separate power wiring, the 5531 is perfect for remote display of process loops.
- · The 5531A display can be panel mounted in the safe area or I.S. / Ex Zone 2 (gas).

Technical characteristics

- With a full measurement range of 3.6 to 23 mA, the 5531 is NAMUR NE43 compliant.
- The display can be push-button scaled to any range between -9999 to 9999, and reverse display action is possible.
- The LCD backlight can be set to half or full intensity for easy viewing in low light conditions.
- The display only requires 1.5 VDC, (75 Ω loop load), with the backlight turned off.
- The input is HART transparent.
- · The front push-buttons can be disabled to prevent unauthorized adjustment.

Mounting / installation

· Once panel mounted with the included gasket, the 5531 provides IP65 ingress protection.

Connections Input signal: 4...20 mA 0 3 55.3 *l*

Order:

Туре	Input signal area classification	Field enclosure
5531A	420 mA from safe and zone 2	No

Environmental Conditions

Specifications range	-20°C to +60°C
Storage temperature	-20°C to +60°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP65, from front

Mechanical specifications

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Dimensions (HxWxD)	48 x 96 x 120 mm
Cut out dimensions	44.5 x 91.5 mm
Weight approx	200 g
Wire size, connector terminal	2
1 - 4	
	2614 stranded wire
Screw terminal torque	0.5 Nm
Cable glands and cable diameter	M16 x 1.5 / Ø 58 mm

Common specifications

Supply voltage	Input loop-powered
Response time (090%, 10010%)	< 1 s
Signal / noise ratio	500 ms

Input specifications

Current input

Loop error detection, 420 mA: Low	~ < 3 mA
Loop error detection, 420 mA: High	~ > 24 mA
Input range	
Measurement range	3.623 mA
Input voltage drop, without backlight	< 1.5 V @ 20 mA
Input voltage drop, with full backlight	< 10.5 V @ 20 mA

Observed authority requirements

LVD	2014/35/EU
EMC	2014/30/EU

Output specifications

Display	
Display readout	± 9999 (4 digits)
Digit height	16 mm

Approvals

ATEX 2014/34/EU	KEMA 05ATEX1044 X
	(5531A/B1)
FAC	TR-CU 020/2011