







5531B

- 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



Application

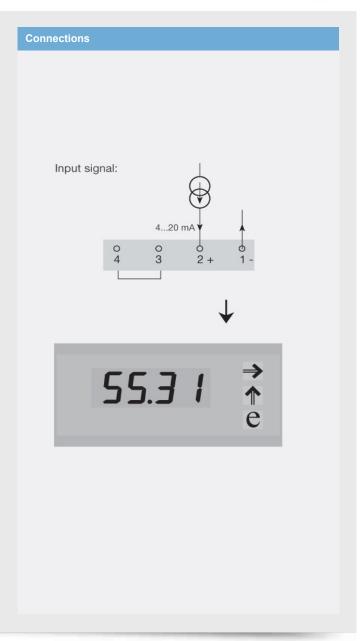
- The 5531 indicator is powered by the 4 to 20 mA current loop and is easily scaled to display the correct process value.
- Because it does not require separate power wiring, the 5531 is perfect for remote display of process loops.
- The 5531B can be mounted in Ex Zone 1.

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.



Order:

Туре	Input signal area classification	Field enclosure
5531B1	420 mA from safe, zone 2 and 22	Yes
5531B	420 mA from zone 0	No
5531B2	420 mA from zone 0 and 20	Yes

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

Dimensions (HxWxD)	
Cut out dimensions	
Cable glands and cable diameter	
Wire size, connector terminal 1 - 4	0.132.08 mm ² / AWG 2614 stranded wire

Common specifications

EMC immunity influence	< ±0.5% of span
Supply voltage	Input loop-powered
Signal / noise ratio	> 60 dB
Response time (090%, 10010%)	<1s
Undating time	500 ms

Input specifications

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

Output specifications

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

Approvals

EMC	FN 61326-1
ATEX 2004/108/EC	
	(5531A/B1)
ATEX 2004/108/EC	KEMA 05ATEX1105 X
	(5531B/B2)
EAC TR-CU 020/2011	EN 61326-1
EAC Ex TR-CU 012/2011	RU C-DK.GB08.V.00410