PERFORMANCE MADE SMARTER

Loop-powered LCD indicator



5531

– 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

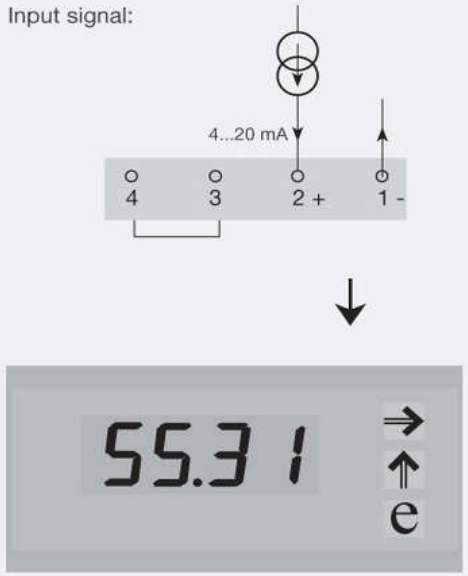
ATEX

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



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Order:

Type	Input signal area classification	Field enclosure
5531A	4...20 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..... 20...28°C
Relative humidity..... < 95% RH (non-cond.)
Protection degree..... IP65, from front

Mechanical specifications

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 1 - 4..... 0.13...2.08 mm^2 / AWG 26...14 stranded wire
Screw terminal torque..... 0.5 Nm
Cable glands and cable diameter..... M16 x 1.5 / Ø 5...8 mm

Common specifications

Supply voltage..... Input loop-powered
Signal / noise ratio..... > 60 dB
Response time (0...90%, 100...10%)..... < 1 s
Updating time..... 500 ms
EMC immunity influence..... < ±0.5% of span

Input specifications

Input range..... 4...20 mA
Measurement range..... 3.6...23 mA
Input voltage drop, without backlight..... < 1.5 V @ 20 mA
Input voltage drop, with full backlight..... < 10.5 V @ 20 mA
Loop error detection, 4...20 mA: Low..... ~ < 3 mA
Loop error detection, 4...20 mA: High..... ~ > 24 mA

Approvals

LVD 2006/95/EC..... EN 61010-1
EMC..... EN 61326-1
ATEX 2004/108/EC..... KEMA 05ATEX1044 X (5531A/B1)
EAC TR-CU 020/2011..... EN 61326-1

Output specifications

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