





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 5531A 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 5531A 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 5531A 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.
- \bullet 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 5531A provides IP65 ingress protection.

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

Order

Туре	Version	
5531A	Zone 2	

Environmental Conditions Operating temperature.....-20°C to +60°C Storage temperature.....-20°C to +60°C Relative humidity..... < 95% RH (non-cond.) Protection degree...... IP65, from front Mechanical specifications Weight approx...... 200 g Screw terminal torque....... 0.5 Nm **Common specifications** Supply Supply voltage...... Input loop-powered Response time Response time (0...90%, 100...10%)........................... < 1 s Signal / noise ratio..... > 60 dB Updating time...... 500 ms EMC immunity influence..... < ±0.5% of span Input specifications **Current input** Loop error detection, 4...20 ~ < 3 mA mA: Low..... Loop error detection, 4...20 mA: High..... ~ > 24 mA 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 half backlight...... < 6.5 V @ 20 mA Input voltage drop, with full

Output specifications

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

Observed authority requirements

EMC	2014/30/EU
ATEX	2014/34/EU
RoHS	2011/65/EU
EAC	TR-CU 020/2011
EAC LVD	TR-CU 004/2011

Approvals

ATEX	KEMA 05ATEX1044X
IECEx	DEK 24.0002X
CCC	2024322309006239