chanhvinh.com

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).

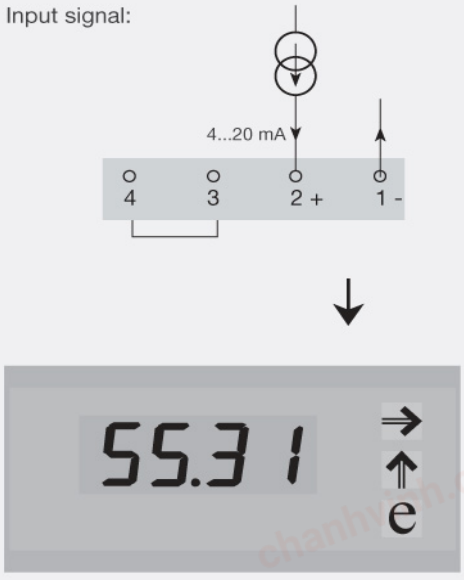
Technical characteristics

- 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



This page is automatically generated on the basis of information provided on www.prelectronics.com and affiliated websites. It is provided to you as a service and for information purpose only. While we have attempted to maintain the information as accurately as possible, the page may contain errors or omissions for which we disclaim any and all liability

chanhvinh.com

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