

# MODEL 3556 LCD Exd LOOP INDICATOR

**Model 3556** is an indicator for mA signals in a compact explosion proof enclosure. The 3½ digit LCD display with 12.7mm high digits may be optionally backlit.

4-20mA input signals may be easily scaled to display engineering units by means of coarse hexadecimal switches and fine trimpots. Display ranges are from -1999 to 1999, with a jumper selector for any of 3 decimal places.

The top display board may be rotated through 90° steps in relation to the bottom termination and power supply board. This feature allows for the housing to be mounted in different orientations to facilitate easy cable entry, and for the display to be read horizontally. Terminations may be made prior to fitting the display board into the housing which makes for very simple wiring access.

These displays may be Loop Powered, or have an AC or DC Auxiliary Power Supply with integral transmitter loop excitation.

## Features

- ☑ LOOP or AC or DC POWER
- ☑ BACKLIT LCD OPTIONAL
- ☑ 12.7mm LCD DISPLAY
- ☑ SIMPLE TO SCALE
- ☑ EASY TO INSTAL



*Facia, full size*

## SPECIFICATIONS :

INPUT	4-20 mA DC
DISPLAY	3½ digit, -1999 to 1999, 12.7mm high LCD, optionally backlit
DECIMAL POINT	Link selectable by jumper under display PCB
ZERO SETTING	By coarse hexadecimal switch, and fine trimpot
SPAN SETTING	By coarse hexadecimal switch, and fine trimpot
ACCURACY	0.1% typical, 0.2% maximum, ± 1 digit
LINEARITY	0.1% of Full Scale
TEMP. COEFFICIENT	±30 ppm / °C typical, ±80 ppm / °C maximum
SETTLING TIME	1 second
OPERATING TEMP.	-10 to +50°C
STORAGE TEMP.	-20 to +70°C
POWER SUPPLY	Loop powered (2V at 20mA maximum loop drop) 12 or 24VDC, or 110 or 240VAC

## GUARANTEE :

This product is guaranteed against faulty workmanship or defective material, for a period of 3 (three) years from the date of delivery by INSTROTECH.

INSTROTECH undertakes to replace without charge all defective equipment which is returned during the period of guarantee (transportation costs prepaid) provided there is no evidence that the equipment has been abused or mishandled in any way.

In the interests of continuous product improvement, INSTROTECH reserves the right to alter any specification without prior notice.

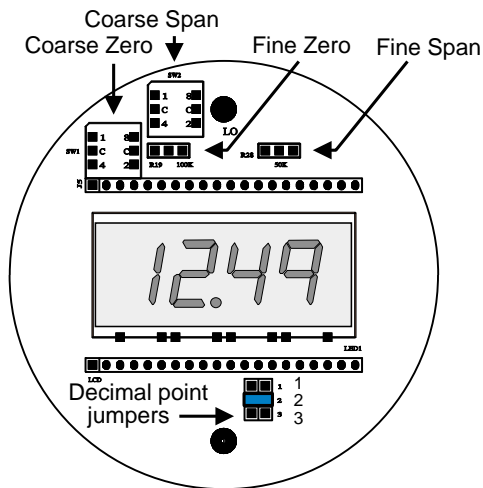
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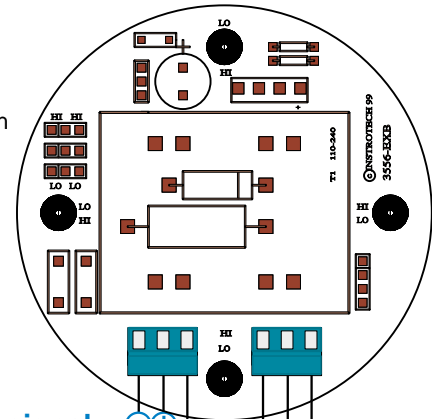
## SETTINGS AND TERMINATIONS : MODEL 3556



Top display board

Bottom terminal board

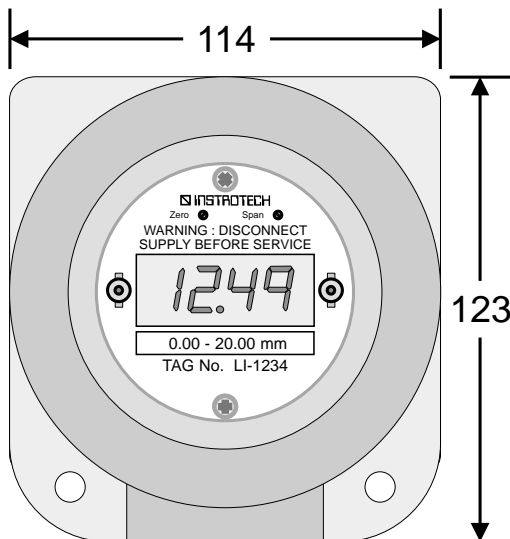
LCD display orientation jumper settings as shown below →



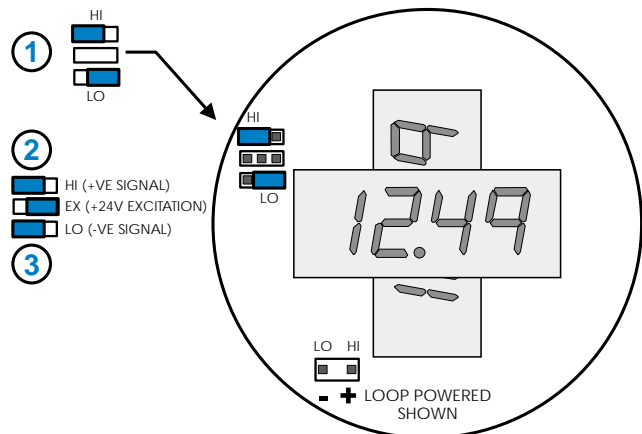
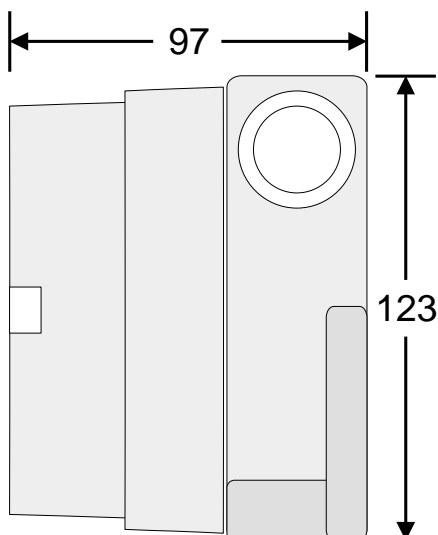
- ① Loop powered signal
- ② Auxiliary supply with internal loop power
- ③ Auxiliary supply with external loop power

DC supply  
AC supply

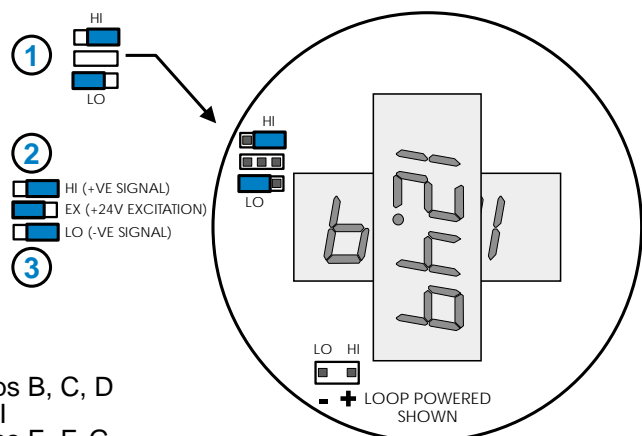
## HOUSING DIMENSIONS :



2 x 8mm ( $\frac{5}{16}$ " ) diameter fixing holes at 83mm ( $\frac{3}{4}$ " ) centres and 67mm ( $\frac{2}{8}$ " ) diameter window



Display orientation jumpers



Class I  
Groups B, C, D  
Class II  
Groups E, F, G  
Class III

CENELEC EExD IIC, IP66, NEMA 4X, 7BCD, 9EFG  
Adalet blue explosion proof instrument housing type  
XIHFGCX2L (2 x  $\frac{1}{2}$ " NPT hubs) or XIHFGCX3L ( $\frac{3}{4}$ " )

**NOTE: CHECK LOCAL INSTALLATION STANDARDS**