

# **LCD Digital Display**

#### **General Instructions**

These instructions provide information for installation, electrical connection, configurations, operation, and maintenance of the LCD digital indicating display.

The display consists of explosion proof die cast aluminum housing, terminal block connections for easy wiring, and a LCD digital indicating loop powered display.

# Loop Powered Direct Mount Indicator Option LPCX

Display 0.6" (15.2 mm) LCD, 3½+ digits; -1999 to 2999  Display Update Rate 2 updates/second					
2 apation occord					
<b>Display Orientation</b> Display may be mounted at 90° increments up to 270° from default orientation.					
Overrange Display flashes 2999					
Underrange Display flashes -1999					
Programming Method 4 Internal pushbuttons (behind glass).					
Noise Filter Programmable HI, LO, or OFF					
<b>Recalibration</b> Recalibration is recommended at least every 12 months.	Recalibration is recommended at least every 12 months.				
Max/Min Display  Max/Min readings reached by the process are stored until reset the user or until power to the meter is turned off.	by				
Non-Volatile Memory  All programmed settings are stored in nonvolatile memory for a minimum of ten years if power is lost.					
Normal Mode Rejection 64 dB at 50/60 Hz					
Environmental Operating temperature range: -40 to 75°C	Operating temperature range: -40 to 75°C				
Storage temperature range: -40 to 75°C					
Relative humidity: 0 to 90% non-condensing					
Printed circuit boards are conformally coated.					
Connections Removable screw terminals accept 12 to 22 AWG wire					

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## Input

Input	4-20 mA				
Accuracy	±0.05% of calibrated span ±1 count				
Function	Linear (2 to 32 points) or square root				
Temperature Drift	50 PPM/°C from -40 to 75°C ambient				
Decimal Point	User selectable decimal point				
Minimum Span	Input 1 & Input 2: 0.40 mA				
Calibration Range	An Error message will appear if input 1 and input 2 signals are too close together.				
	Input Range   Minimum Span Input 1 & Input 2				
	4-20 mA	0.40 mA		]	
Maximum Voltage Drop & Equivalent Resistance	Without Backlight		With Backlight		
a Equivalent Resistance	1.7 VDC @ 20 mA		4.7 VDC @ 20 mA		
	85 Ω @ 20 mA		235 Ω @ 20 mA		
Loop-Powered Backlight Option	Factory installed only. Powered directly from the 4-20 mA loop, no batteries required. Backlight can be enabled or disabled via alternative wiring of terminal block. The display brightness will increase as the input signal current increases.				
Input Overload	Over current protection to 2 A max.				
HART Transparency	The meter does not interfere with existing HART communications; it displays the 4-20 mA primary variable and it allows the HART communications to pass through without interruption. The meter is not affected if a HART communicator is connected to the loop. The meter does not display secondary HART variables.				

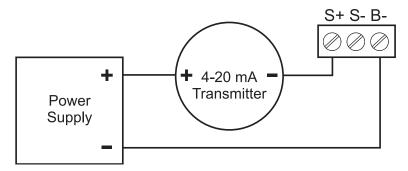
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#### **Electonics Module**

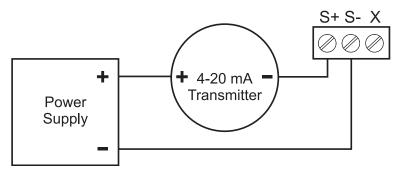
The electronics module is housed in a plastic enclosure that provides a degree of environmental protection for the electronics circuitry. The module is mounted to the enclosure with spring-loaded thumbscrews and can be oriented in 0°, 90°, 180°, or 270° increments. Connections are made to a removable screw terminal block.



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**Input Connections with Backlight** 



**Input Connections without Backlight** 

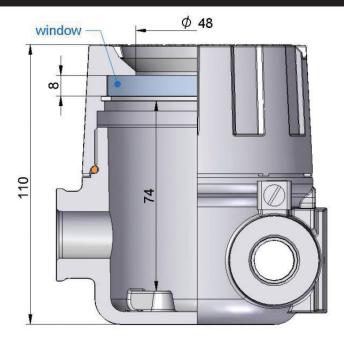
#### **Programming**

The display comes calibrated and scaled at the factory to display a 4.00 to 20.00 mA signal on startup. To change the scaling, follow along using the 4 button interface.



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## **Dimensions**



## Maintenance

The SSi Temperature Sensor Digital Indicating Display contains no user serviceable parts and cannot be repaired on site. If display is not functioning correctly, please contact factory for assistance.

