Supplementary components

Displays

SITRANS RD100

Overview



The SITRANS RD100 is a 2-wire loop powered, NEMA 4X enclosed remote digital display for process instrumentation.

Benefits

- Easy setup
- Approved for hazardous locations
- NEMA 4X, IP67 impact-resistant enclosure
- Simple two-step calibration
- Two modes of input allow for easy servicing, with no interruption of loop required

Application

The RD100 is very versatile. It can be installed indoors or outdoors, in hot or cold environments, and in safe or hazardous areas.

It has been approved by FM and CSA as Intrinsically Safe and non-incendive, and operates from -40 to +85 °C (-40 to +185 °F), adding only 1 V to the loop.

Calibration consists of a quick two-step process involving the adjustment of only two non-interacting potentiometers.

 Key Applications: remotely displays process variables in level, flow, pressure, temperature, and weighing applications, in a 4 to 20 mA loop.

Technical specifications

- Common operations			
Mode of operation			
Measuring principle	Analog to digital conversion		
Measuring range	4 20 mA		
Measuring points	1 instrument only		
Accuracy	± 0.1 % of span ± 1 count		
Rated operating conditions			
Ambient conditions Operating temperature range Storage temperature	-40 +85 °C (-40 +185 °F) -40 +85 °C (-40 +185 °F)		
Design			
Weight	340 g (12 oz)		
Material (enclosure)	Impact-resistant glass filled polycar- bonate body and clear polycarbonate cover		
Degree of protection	NEMA 4X, IP67		
Power supply			
External loop power supply	30 V DC max.		
Display	• 1.0 inch (2.54 cm) high LCD		
	• Numeric range from -1 000 +1 999		
Certificates and approvals			
Non-hazardous	CE		
Hazardous • Intrinsically Safe	• CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G T4		
Non-incendive	 CSA/FM Class I, Zone 0, Group IIC CSA/FM Class I, Div. 2, Groups A, B, C, D 		
	• CSA/FM Class II and III, Div. 2, Groups F and G		
Options			
Mounting	2 inch (5.08 cm) pipe mounting kit (zinc plated or stainless steel)Panel mounting kit		

Selection and ordering data

	А	rticle No.
SITRANS RD100 Display	7	ML5741-
Remote digital display for process instruments. 2-wire, loop powered, NEMA 4X enclosure.		A00-0
→ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Conduit hole location (½ inch)		
None	1	
Bottom	2	
Rear	3	
Тор	4	
Approvals		
FM/CSA		Α
CF		В

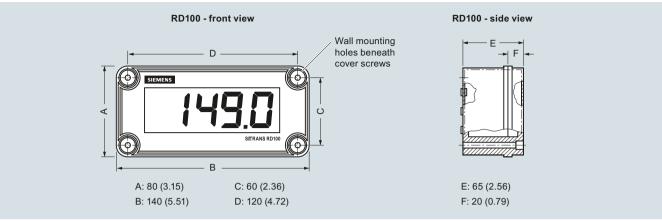
OL		
Selection and Ordering data	Article No.	
Operating Instructions		
All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation		
Accessories Panel mount kit 2 inch (5.08 cm) pipe mounting kit (zinc plated seal) 2 inch (5.08 cm) pipe mounting kit (stainless steel, Type 304. EN 1.4301)	7ML1930-1BN 7ML1930-1BP 7ML1930-1BQ	

Supplementary components

Displays

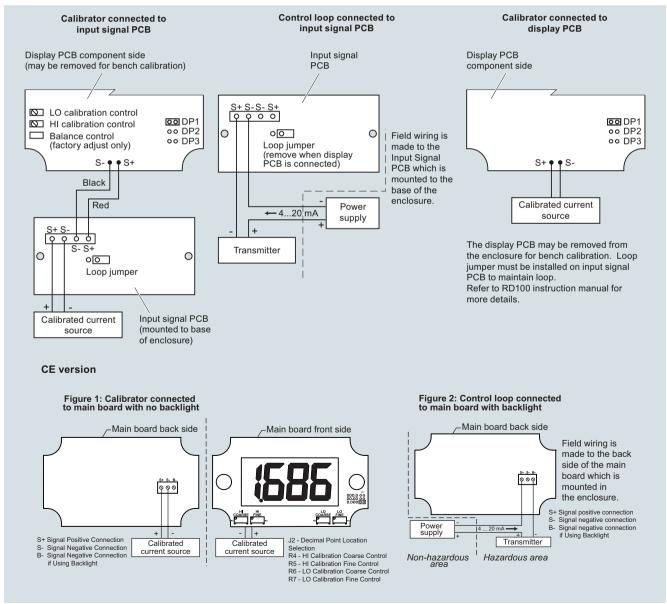
SITRANS RD100

Dimensional drawings



SITRANS RD100, dimensions in mm (inch)

Circuit diagrams



SITRANS RD100 connections