Supplementary components

Displays

SITRANS RD150

Overview



The SITRANS RD150 is a remote display for 4 to 20 mA and HART devices.

Benefits

- · Ease of use through 4 button menu driven display
- Backlit display
- HART communications
- Flexible mounting options
- Plastic, stainless steel or aluminum housings up to IP68
- Full configuration of connected sensors with optional USB Communicator and PC
- Support for multiple HART sensors with HART Multi-drop

Application

The versatile SITRANS RD150 can be installed remotely from your instrument, providing 4/20 mA or multiple HART variable readings in a safe and convenient location.

Easy to use, 4 button, menu driven, display for configuration of HART instruments via standard HART commands and full configuration of connected instruments via USB and computer.

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

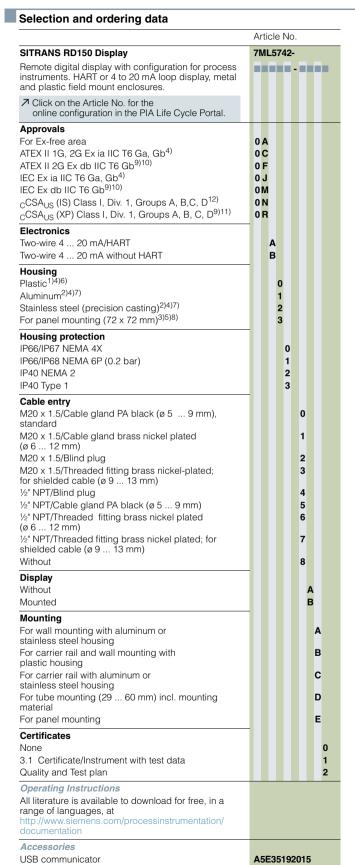
Technical specifications

Mode of operation	
Measuring principle	Analog to digital conversion
Measuring range	3.5 22.5 mA
Measuring points	HART multi-drop support
Accuracy	± 0.1 % of 20 mA
Rated operating conditions	
Without display and adjustment module	-40 +80 °C (-40 +176 °F)
With display and adjustment module	-20 +70 °C (-4 +158 °F)
Storage temperature	-40 +80 °C (-40 +176 °F)
Design	
Weight Plastic housing Aluminum housing Stainless steel housing	0.35 kg (0.772 lb) 0.7 kg (1.543 lb) 2.0 kg (4.409 lb)
Material (enclosure) Plastic housing Aluminum housing	Plastic PBT (Polyester) Aluminum die-casting AlSi10Mg, powder-coated (basis: Polyester)
Stainless steel housing	316L precision casting, blasted
Degree of protection Plastic housing Housing for panel mounting (mounted)	IEC 60529 IP66/IP 67, NEMA Type 4X IEC 60529 IP40, NEMA Type 1
Aluminum/stainless steel housing	IEC 0529 IP66/IP68 (0.2 bar), NEMA Type 6P
Power supply	
External loop power supply	35 V DC max.
Display	
Number of digits	5
Digit size	7 x 13 mm (0.28 x 0.51 inch)
Certificates and approvals	See the online PIA configuration tool for details.
Options	
Mounting	Panel MountingCarrier rail mountingPipe mounting

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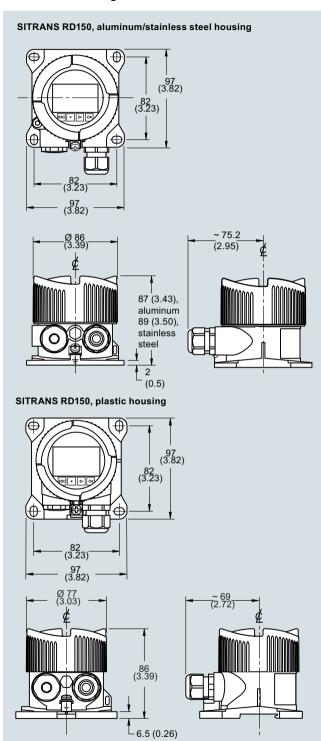
- 1) Available only with Housing protection option 0.
- 2) Available only with Housing protection option 1.
- 3) Available only with Housing protection option 2.
- 4) Available only with Cable entry options 0, 2, 4, and 5.
- 5) Available only without Cable entry option 8.
- 6) Available only with Carrier rail and Tube mount Mounting options.
- 7) Available only with Wall mount, Carrier rail with aluminum or stainless steel housing, and Tube mount Mounting options.
- 8) Available only with Panel mounting option.
- 9) Available only with Housing options 1 and 2.
- ¹⁰⁾Available only with Cable entry options 2, 3, 4, and 7.
- ¹¹⁾Available only with Cable entry options 2, 3, 4, 6, and 7.
- 12) Not available with Cable entry option 1.

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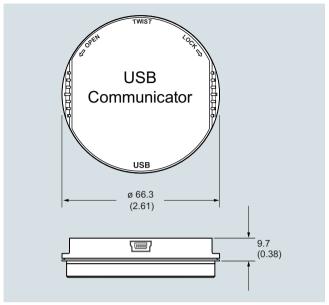
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Dimensional drawings

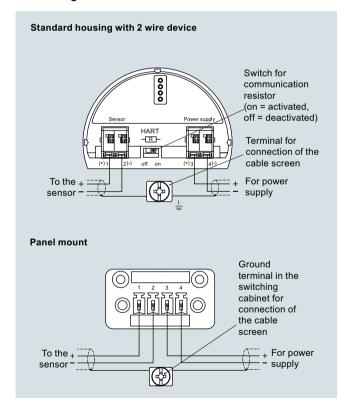


SITRANS RD150, dimensions in mm (inch)



USB Communicator, dimensions in mm (inch)

Circuit diagrams



SITRANS RD150 connections