Rosemount[™] 226

Toroidal Conductivity Sensors



A Low Maintenance Solution for High Conductivity Applications

The Rosemount 226 Toroidal Conductivity sensor measures conductivity in highly conductive liquids up to 2 S/cm (2,000,000 μ S/cm). This toroidal/inductive sensor has a robust fouling-resistant design which makes it ideal for measuring conductivity in harsh, corrosive and fibrous liquid applications.



Overview



High Performance and Minimal Maintenance

- Plugging resistant and suitable for liquids containing high levels of suspended solids due to large bore design.
- High vibration tolerance with reinforced internal metal frame design.
- Constructed with highly corrosion-resistant glass-filled PEEK.
- Robust measurements insensitive to process flow and direction.

Versatile Installation Options

- 1 in. MNPT process connection mounting adapter for submersion type installations.
- Can be inserted through any user supplied flange by using optional process connection mounting adapter.

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Ordering Information



Rosemount 226 Toroidal Conductivity sensors are molded of chemically-resistant glass-filled PEEK and are ideal for measuring concentrations of acid, base, and salt solutions. The sensors include an integral Pt-100 RTD for temperature compensation and a 20 ft. integral cable. With a large bore hole opening, the Rosemount 226 greatly resists plugging when used in liquids containing high amounts of suspended solids.

Additional Information

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Table 1. Rosemount 226 Toroidal Conductivity Sensor ordering information

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Model	Sensor type				
226	Toroidal Conductivity Sensor				
Sensor c	Sensor construction				
02	Glass-Filled PEEK (1)				
Transmit	Transmitter compatibility (2)				
54	Standard Cable (3)				
56	EMI/RFI Shielded Cable (4)				
Mountin	Mounting kit				
80	Submersion (5)				
81	Insertion Through User-Supplied Flange (6)				
82	No Kit Required (7)				
Typical N	Typical Model Number: 226-02-56-80				

- 1. The sensor is supplied with an EPDM gasket (a Viton gasket PN 33151-01 is also available; see accessories).
- 2. Cables may be extended using the remote junction box PN 23550-00 (sold separately) and extension cables (see accessories).
- 3. Recommended for use with Rosemount legacy transmitter models 1054 and 2054.
- 4. Recommended for use with Rosemount transmitter models 54C, 54eC, 81T, 2081T, 3081T, 4081T, XMT, 56, 1056, 1066, 5081, and 56.
- 5. Includes a 1-inch MNPT PEEK adapter.
- 6. Includes spacer and nut.
- 7. This option does not include any mounting kit and is for replacement sensors only.

Specifications

Table 2. Rosemount 226 Toroidal Conductivity Sensor specifications

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Glass-filled PEEK

Operating Temperature

32 to 248 °F (0 to 120 °C)

Maximum Pressure

295 psig (2135 kPa [abs])

Cable Length

20 ft. (6.1 m)

Maximum Cable Length

Up to 200 ft. (61.0 m) maximum

Process Connection

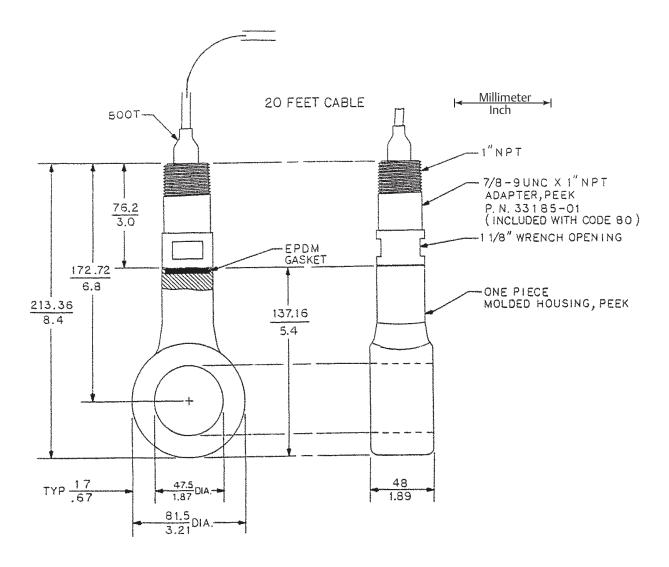
7/8 in. 9 UNC threads for flange mounting and 1 in. MNPT (with -80 option); see dimensional drawings for more details

Weight/Shipping Weight

2 lbs/3 lbs (1.0 kg/1.5 kg)

Dimensional Drawings

Figure 1. Rosemount 226 with 1 in. MNPT process connection mounting adapter (-80 option) dimensional drawing



20 FEET CABLE -Millimeter 228.6 9.0 BOOT-4,150 # STEEL FLANGE 1"NPT, 304 SST ADAPTER FOR CONDUIT GASKET -PEEK FLANGE SPACER 1" LONG — EPDM GASKETS ONE PIECE MOLDED HOUSING, PEEK 137.2 5.4 186.4 7,34 4", 150 # WELDING NECK STEEL FLANGE 40.9 48 1.89 47.5 1.87 0.-81.5 3.21 0.

Figure 2. Rosemount 226 with 7/8 in. 9 UNC thread and insertion through flange mounting adapter (-81 option) dimensional drawing

Accessories

Table 3. Rosemount 226 Toroidal Conductivity Sensor accessories information

Part number	Description
2001492	Stainless Steel Tag (Must Specify Marking)
23550-00	Remote Junction Box without Preamplifier
23294-00	Interconnecting Extension Cable, Unshielded (for use with Remote Junction Box)
23294-05	Interconnecting Extension Cable, Shielded (for use with Remote Junction Box)
33151-00	EPDM Gasket
33151-01	Viton Gasket
33185-01	Submersion Mounting Adapter, 1 in. MNPT, 3 in. Length, PEEK (spare for -80 option sensors)
33185-02	Flange Insertion Mounting Adapter, 1 in. Length, PEEK (spare for -81 option sensors)
33219-00	7/8 in. 9 UNC X 1 in. MNPT for Conduit Connection (spare for -81 option sensors)

Engineering Specification

- The sensor shall measure electrolytic conductivity using the inductive or toroidal method.
- The sensor shall have a large bore to reduce fouling from fibrous materials in the process stream.
- The sensor shall be molded from glass-filled PEEK.
- The sensor shall be suitable for submersion mounting or for insertion mounting through a pipe flange.
- The sensor shall withstand 248 °F (120 °C) at 295 psig (2135 kPa).
- The sensor shall be Rosemount Model 226 or approved equal.

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Emerson Automation Solutions

2400 Barranca Parkway Irvine, CA 92606 USA Toll Free +1 855 724 2638 F +1 949 474 7250 **Liquid.CSC@Emerson.com**

