

Series DRF34/DRG26 Pressure Gauge Installation/Operation Instructions

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Precautions

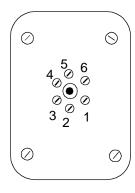
- Please read the entire manual prior installing this product. These instructions include information on the DRF34 and DRG26 pressure gauge with switches. Refer to the part number label on the instrument housing to verify the exact model number.
- User's responsibility: These instruments are designed for use in a wide variety of applications. It is however, the user's responsibility to ensure the suitability of the device with respect to a specific application. Additionally, it is the user's responsibility to ensure the unit is properly installed and tested prior to operation.
- Proper Installation and Sealing: Always use a proper thread sealant with all installations. Be sure not to overtighten fittings. Test for leaks prior to operating the instrument.

- Wiring and Electrical: For units with switches, check the current and voltage requirements for the load to be controlled. Ensure that they do not exceed the maximum specified switch ratings.
- Temperature and Pressure: Under no circumstances should the maximum ratings of operating temperature and pressure be exceeded. Doing so can result in equipment damage and personnel injury.
- Material Compatibility: Ensure that the media contacted parts are made of a material which is chemically compatible with the process media. Ensure that the housing material is compatible with the ambient environment. Failure to do so can result in equipment damage caused by chemical attack.

Electrical Connections:

All electrical connections are made via a weather proof 90° angle connector plug on the side of the indicator housing. Connections are made via numbered screw terminals inside the connector. It is recommended that a multi-conductor jacketed cable be used. The outside diameter of the jacket should be large enough to ensure that the weather-tight cable gland on the plug can be tightened down snugly.

Table 1 (back of page) lists the part number suffixes, the switching functions and the connection terminal numbers to be used for the various switch configurations. Check your part number with our catalog specifications to verify the type of switches you have.



Terminal Housing

Switch Adjustment:

For units which have switches, adjust the switch setpoint as follows:

- Remove the adjusting tool from the rear of the angled electrical connector.
- The switch point indicators are the ones with the red tips. Adjustment is made by inserting the adjusting tool into the socket at the center of the dial face and pushing down on the spring loaded adjusting arm. By then rotating the adjusting tool, the arm will contact the switchpoint indicators and allow them to be moved to the desired switchpoint.
- When setpoint adjustment is complete, re-install the adjusting tool into the back of the angled connector.

Table 1: Switching Options and Wiring Terminal Numbers

Contact Type		Functional Description	Wiring Connections
Sliding	Magnetic		(terminal number designations)
S11	M11	Both contacts closed when temperature is above setpoint	1 = First Contact 2 = Second Contact 3 = Common
S12	M12	First contact closed when temperature is above setpoint Second contact open when temperature is above setpoint	1 = First Contact 2 = Second Contact 3 = Common
S21	M21	First contact open when temperature is above setpoint Second contact closed when temperature is above setpoint	1 = First Contact 2 = Second Contact 3 = Common
S22	M22	First contact open when temperature is above setpoint Second Contact open when temperature is above setpoint	1 = First Contact 2 = Second Contact 3 = Common

Specifications

Range: Per part number and catalog specifiaction

Accuracy:

20 PSIG Full Scale or Less: ±1.6% of Full Scale 30 PSIG Full SCale or More: ±1.0% of Full Scale

Fittings: 1/2" NPT

Wetted Parts:

DRG26: 316Ti Stainless Steel DRF34: Brass, Bronze, Copper

Housing Diameter: 4" of 6.3"

Housing Materials:

DRG26: 304 Stainless Steel

DRF34: Aluminum standard, optionally 304 Stainless Steel

Movement:

DRG26: 316 Ti Stainless Steel

DRF34: Brass

Switch Ratings:

Maximum Voltage: 250 VAC
Maximum Current: 0.6 amps
Maximum Power: 10 w/18 VA

Electrical Protection:

Unfilled Housings: NEMA 3R
Oil Filled Housings: NEMA 4