

Features

- Combination Pressure Gauge & Switch
- 1 or 2 SPST Switches Possible
- Bourdon Tube Design
- DIN Accuracy Class: 1.0
- Pulsation and Vibration Damping Through Optional Paraffin Oil Filling

Should pressure switching be required in addition to pressure indicating capability, the DRF34 pressure gauge series is there to fill the need. Copper alloy components make up the bourdon tube sensing element and indicator movement. The housings with fittings at the bottom are made of stainless steel. With fittings oriented rearward, the housings are aluminum and feature a panel mounting bezel.

The DRF34 offers a choice of either one or two magnetically coupled or inductive switches. Paraffin oil filling is available to damp movement caused by pressure surges and pulsations.



Specifications

Ranges: -14.7 to 10,000 PSIG (see table)

Usable Range

Static Load: 0-100% of full scale

Dynamic Load: 0-90% of full scale

Sensing Element: bourdon tube

DIN Accuracy Class:

20 PSIG & Less: 1.6

30 PSIG & Up: 1.0

Operating Temperature

Medium: freezing to 180°F

Ambient: freezing to 140°F

Fittings: 1/2" NPT

Materials of Construction

Wetted Parts

Element

< 1000 PSIG: Copper

1000 PSIG & Up: Stainless Steel

Fitting: CuZn Alloy

Exterior

Movement: Brass

Housing: 304 SS or aluminum

Bezel: 304 SS

Pointer: Black aluminum

Indicator Dial: White aluminum

Window: Safety glass

Magnetic Spring Contacts

Repeatability: ±5% of full scale

Ratings (max.): 250 V, 0.6 A
30 W or 50 VA

Inductive Contacts

Repeatability: ±0.5% of full scale

Logic: NAMUR

On: > 3 mA

Off: < 1 mA

Power Requirements

Voltage: 5-25 VDC @ 20 mA

Environmental Protection

Unfilled Housings: NEMA 3

Paraffin Oil Filled: NEMA 4

Options: Paraffin oil damped indicator assembly

KOBOLD DRF34 Pressure Gauge

DRF34 Ordering Information						
DRF34	= Brass Bourdon Tube Pressure Gauge with Switches					
-1	= 100 mm (4 inch) Dial Face, Bottom Process Connection, Stainless Steel Housing					
-2	= 100 mm (4 inch) Dial Face, Rear Process Connection, Aluminum Housing					
Range	= Pressure Range Abbreviation					
H00	= -30" to 0" Hg					
115	= 15 PSIG					
130	= 30 PSIG					
160	= 60 PSIG					
210	= 100 PSIG					
216	= 160 PSIG					
220	= 200 PSIG					
230	= 300 PSIG					
260	= 600 PSIG					
310	= 1000 PSIG					
320	= 2000 PSIG					
330	= 3000 PSIG					
350	= 5000 PSIG					
410	= 10000 PSIG					
M	= Magnetic spring contact switch(es)					
I	= Inductive switch(es)					
Function	= Desired Switching Behavior					
1	= Single N/O					
2	= Single N/C					
11	= N/O Low & N/O High					
21	= N/C Low & N/O High					
12	= N/O Low & N/C High					
22	= N/C Low & N/C High					
F	= Paraffin oil damped indicator assembly					
	Options					
DRF34	-1	H00	M	21	F	Sample DRF34 Specification

Dimensions (mm)

