

DRF34

BRASS PRESSURE GAUGE WITH SWITCHES



KOBOLD Instruments Inc.
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- Combination pressure gauge & switch
- 1 or 2 SPST switches possible
- Bourdon tube design
- $\pm 1\%$ accuracy
- Pulsation and vibration damping through optional paraffin oil filling



KOBOLD DRF34 Pressure Gauge

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 the indicator movement. The housings with fittings oriented at the bottom are made of stainless steel. With fittings oriented rearward, the housings are uniformly 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

Accuracy
20 PSIG & Less: $\pm 1.6\%$ of full scale
30 PSIG & Up: $\pm 1.0\%$ of full scale

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: $\pm 5\%$ of full scale
Ratings (max.): 250 V, 0.6 A
30 W or 50 VA

Inductive Contacts

Repeatability: $\pm 0.5\%$ 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



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DRF34 BRASS PRESSURE GAUGE WITH SWITCHES

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
	Type of Switches
	High/Low Function
	Options
DRF34 -1 H00 M 21 F	Sample DRF34 Specification

Dimensions (mm)

