Features

- Combination Pressure Gauge & Switch
- 1 or 2 SPST Switches Possible
- Bourdon Tube Design
- ±1.0% Accuracy
- 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 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.

KOBOLD DRF34 Pressure Gauge

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:** ±1.6% of full scale
- **30 PSIG & Up:** ±1.0% of full scale

Operating Temperature
- **Medium:** freezing to 180°F
- **Ambient:** freezing to 140°F

Fittings: ½" 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

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

Available Measuring Ranges

H00 = –30" to 0" Hg	**210** = 100 PSIG	**260** = 600 PSIG	**350** = 5000 PSIG
115 = 15 PSIG	**216** = 160 PSIG	**310** = 1000 PSIG	**410** = 10000 PSIG
130 = 30 PSIG	**220** = 200 PSIG	**320** = 2000 PSIG	
160 = 60 PSIG	**230** = 300 PSIG	**330** = 3000 PSIG	

M = Magnetic spring contact switch(es)
I = Inductive switch(es)

Type of Switches

Function = Desired Switching Behavior

High/Low Function

1 = Single N/O	**11** = N/O Low & N/O High	**12** = N/O Low & N/C High
2 = Single N/C	**21** = N/C Low & N/O 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)