CAPSU-PHOTOHELIC® PRESSURE SWITCH/GAGES
Lo-Limit and Hi-Limit Control, Aluminum or Brass Case Available

SERIES 43000
Capsu-Photohelic® switch/gage

Set points are instantly adjusted with front knobs.

Series 43000 Capsu-Photohelic® switch/gage function as versatile, highly repeatable pressure switches combined with a precise pressure gage employing the time-proven Magnehelic® gage design. The Capsu-Photohelic® switch/gage employs an encapsulated sensing element for use with both liquids and gases at pressures to 500 psig (34 bar). Optional cast brass case is available for water or water based liquids. Two phototransistors actuated, DPDT relays are included for low/high limit control. Easy to adjust set point indicators are controlled by knobs located on the gage face. Individual set point deadband is one pointer width — less than 1% of full-scale. Set points can be interlocked to provide variable deadband — ideal for control of pumps.

FEATURES/BENEFITS
• Gage capsule permits high-pressure usage with small differentials
• Zero and range adjustments outside of gage means no disassembly in normal service
• Time-proven, simple, frictionless movement that permits full-scale readings as low as 0.5 in w.c.
• Photo-electronic relays provide fast-acting switching with variable deadband control for chatter-free operation

APPLICATIONS
• Pump control
• Pumping systems
• Wastewater
• Compatible liquid or gas applications

MODEL CHART

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SERIES 43000 Capsu-Photohelic® switch/gage with brass body

SPECIFICATIONS
GAGE SPECIFICATIONS
Service: Compatible gases and liquids. Brass case option required for water based liquids.
Wetted Materials: Consult factory.
Accuracy: ±3% of FS at 70°F (21.1°C) ±4% on 43215, 43220 and 43500.
Pressure Limits: -20 Hg to 500 psig (-0.677 to 34.5 bar).
Temperature Limits: 20 to 120°F (-6.67 to 48.9°C). Low temperature option available.
Process Connections: 1/4” female NPT.
Size: 4" (101.6 mm) dial face, 5" (127 mm) OD x 9-3/16” (233.36 mm).
Weight: 5 lb, 8 oz (2.49 kg). Brass 11 lb, 2 oz (5.05 kg).

SWITCH SPECIFICATIONS
Switch Type: Each set point has 2 form C relays (DPDT).
Repeatability: ±1% of FS.
Electrical Rating: 10 A @ 120 VAC, 6 A @ 240 VAC, 60 Hz res. 10 A @ 28 VDC.
Electrical Connections: Screw terminals.
Power Requirements: 120 VAC, 50/60 Hz; 240 VAC and 24 VAC power optional.
Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.
Set Point Adjustment: Adjustable knobs on face.

OPTIONS
To order add suffix:
- SRH Single relay activates on increase
- SRL Single relay activates on decrease
- 24VAC 24 VAC relay pack
- 240VAC 240 VAC relay pack
- RMR Remote mounted relay
- TAMP Tamper proof knobs
- WP Weatherproof (NEMA 4)
- EXPL Explosion-proof (NEMA 7 C, D, 9 E, F, G; NEC Class I, Div. 1 and 2, Groups C, D, Class II, Div. 1 and 2, Groups E, F, G, Class III
- NIST NIST traceable calibration certificate

Example: 43001-NIST
B Brass body; For water based liquids order optional brass case

Example: 43001B

USA: California Proposition 65
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Process Tubing Options: See page 453 (Gage Tubing Accessories)