

# Model 121 Series "Filter Minder" Piston Type Differential Pressure Indicating Switch or Transmitter







**Typical Switch Arrangment** 

Medium Range: 0-5 P.S.I.D. to 0-110 P.S.I.D. (0.35 to 7.0 bar)

A low cost differential pressure indicating switch or transmitter for use in measuring the pressure drop across filters, strainers, separators, valves, pumps, chillers etc., and for local flow indication and control.

- 1/2 NPT access with heavy duty switch/transmitter housing and terminal strip.
- Choice of one or two magnetically actuated hermetically sealed reed switches to provide high and low limit alarm or control. or 4-20ma transmitter.
- Simple, rugged, compact design.
- Working pressure 6000 P.S.I.G. (400 bar) Models 121-A and 121-S.
- Over-range protection to max. pressure.
- Aluminum or 316 stainless steel gauge body with 316 stainless steel internals
- Weather-resistant construction standard.
- Accuracy ± 2% full scale (ascending)\*.
- Shatter resistant lens.
- 2 ½" and 4 ½" plastic dial assemblies
- Five Year Limited Warrantv

# Model 121 Indicating Switch(es) or 4-20ma Transmitter SPECIFICATIONS TRANSMITTER SWITCH(ES)

Features: Micro processor based,

with external zero interface,

8-28 Vdc loop powered 2 wire interface

#### **Electrical**

Accuracy  $\pm 2\%$  (top 80% of scale)

Supply Voltage 8-28 Vdc
Output 4-20 ma
Max Loop Resistance 1000 Ohms

#### <u>Interface</u>

4 position terminal strip for 12-22 Awg wire, (Pin 1 = return, Pin 2 = zero

Pin 3 = 8-20 Vdc, Pin 4 = chassis 1/2" NPT access

**Environmental** Weather Proof Rating (NEMA 4 X, IP65)

Features: One or two hermetically sealed reed switches

### **Electrical**

#### Switch rating and Adjustability

0-3W, .25 Amp

125 VAC (10-90% F.S.)^

60W, 3.0 Amp

240 VAC (25-90% F.S.)^

#### <u>Interface</u>

7 position terminal strip for 12-22 Awg wire

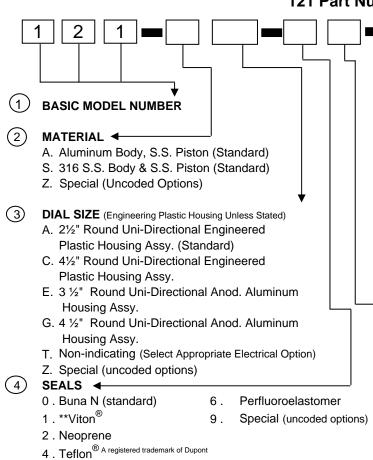
1/2" NPT access

Environmental Weather Proof (NEMA 4 X, IP65)

# Standard Model Specifications 121-AA-00-O(AA)

6000 P.S. I G. Working Pressure Aluminum Body, Stainless Steel Piston, Ceramic Magnets, Buna N Seals, 2 1/2" Engineering Plastic Case with shatter-resistant lens. 1/4" FNPT Back Connections. Accuracy ±2% Full Scale (Ascending)\*

## 121 Part Numbering System



- 6 **OPTIONS** (Up To Four Options)
  - O. None (Standard)
  - B. DIN2353 12-S (12mm) Steel Tube Fittings (2)
  - F. Pipe Mounting Kit (carbon steel)
  - L. Liquid Fill (Not available w/follower pointer)
  - M. Maximum Indicator Follower Pointer
  - T. Oxygen Cleaning
  - U. S.S. Tag with S.S. Wire
  - V. S.S. Tag with S.S. Screw
  - Z. Special (uncoded options)
- 7) ELECTRICAL CONFIGURATIONS 4
  - A. One (1) switch NEMA 4X/IP65 enclosure with terminal strip
  - B. Two (2) switches NEMA 4X/IP65 enclosure with terminal strip
  - T. 4-20 mA Transmitter in NEMA 4X/IP65 plastic enclosure
- 8 ELECTRICAL SPECIFICATIONS
  - A. S.P.D.T., 3W, 0.25 Amp., 125 VAC/VDC (Standard Switch adjustable range of 10-90%)<sup>^</sup>
  - E. S.P.S.T., 60W, 3.0 Amp, 240 VAC/VDC (Normally open) (Switch adjustable range of 25-95%)^
  - F. S.P.S.T., 60W, 3.0 Amp., 240 VAC/VDC

(Normally Closed)(Switch adjustable range of 25-95%)^

- G. S.P.S.T., 60 W, 3.0 Amp., 240 VAC/VDC One (1) Normally Open, One (1) Normally Closed
- T. 4-20 ma Transmitter (8-28 VDC Loop power)
- Z. Special (Uncoded Options)
  ^Preliminary

#### CONNECTIONS -

5. Ethylene Propylene

- 0. 1/4" FNPT Back Connections (standard)
- 2. 1/4" FNPT End Connections
- 6 . 7/16" 20 Straight Thread O-Ring Port (Back Connections)
- 7 . 1/2" FNPT Stainless Steel Adaptors
- 9. Special (uncoded options)
- \*\*Viton is a registered trademark of DuPont Dow Elastomers

