

# Differential Pressure LiquiSeal™ Purge Control



## 738 SERIES

- Fully integrated air purge regulator that provides continuous level measurement
- Integral differential pressure transmitter provides 4 mAdc to 20 mAdc output proportional to liquid level
- Reliable proven sensing technique
- A highly refined versions of the basic bubbler air control
- All-pneumatic version available
- Simple to install and maintain

### APPLICATIONS

- Tank level indication
- Marine
  - Tank level, draft monitoring and vessel management
  - Ballast water
  - Fuel oil
  - Fresh water
  - Lube oil
  - Brine
  - Preload
  - Holding

### SPECIFICATIONS

<b>Output signal</b>	4 mAdc to 20 mAdc (milliamperes)
<b>Accuracy</b>	0-5 psid trans./control ± 0.34% full scale 0-10 psid trans./control ± 0.27% full scale 0-15 psid trans./control ± 0.24% full scale 0-30 psid trans./control ± 0.22% full scale 0-50 psid trans./control ± 0.21% full scale
<b>Repeatability</b>	± 0.20% of calibrated span
<b>Temperature range</b>	0 °F to 120 °F / -16 °C to 54 °C
<b>Maximum pressure</b>	300% over-range
<b>Burst pressure</b>	200 psig
<b>Power requirement*</b>	14 Vdc to 40 Vdc
<b>Compressed air requirement</b>	35 psig to 150 psig supply pressure at control inlet. (Minimum supply pressure should be at least 20 psig greater than anticipated maximum liquid head pressure.)
<b>Maximum depth measurement</b>	1,937 inH <sub>2</sub> O(49.0 m)
<b>DP Purge control</b>	Unit incorporates differential air flow regulator with flow control orifice. Fixed differential set to nominal 10 psid. Output is 1:1 pneumatic pressure (hydrostatic force equivalent). Includes an integral differential pressure (D/P) transmitter converting pneumatic pressure into 4 mAdc to 20 mAdc electronic output. Ranges available: 0 psid to 5 psid, 0 psid to 10 psid to 30 psid, 0 psid to 50 psid,
<b>Flow rate (air purge)</b>	Nominal 1 cfh (cubic feet per hour) at specified differential. Maximum air consumption under 5 cfh.
<b>Materials of construction</b>	Machined brass body with acrylic semi-gloss enamel finish; integral filter element is aluminum with acrylic semi-gloss enamel finish.

\* Unregulated



ORDERING INFORMATION			
<b>SERIES</b>	738		
<b>FITTINGS</b>	1918 None, 1/4" NPT	3918 Polyflo; (1) 3/8" tube, (1) 1/4" tube x 1/4" NPT	4918 Swagelok; (1) 3/8" tube, (1) 1/4" tube x 1/4" NPT (compatible with Copper or Poly tubing)
<b>MILLIAMP OUTPUTS</b>	108 4 mAdc to 20 mAdc 0-5 psid	128 4 mAdc to 20 mAdc 0-15 psid	148 4 mAdc to 20 mAdc 0-50 psid
	118 4 mAdc to 20 mAdc 0-10 psid	138 4 mAdc to 20 mAdc 0-30 psid	168 4 mAdc to 20 mAdc 0-2 psid

**NOTE:** Unit includes (1) water-resistant Hubbell cord grip.

**EXAMPLE**

**738 - 3918 - 108**

Series .....738 Series

Fitting .....Polyflo; (1) 3/8" tube, (1) 1/4" tube x 1/4" NPT

Milliamp output ..... 4 mAdc to 20 mAdc 0-5 psid

