The Series AT-DH3 ATEX/IECEx Approved Digihelic® Differential Pressure Controller is a 3-in-1 instrument possessing a digital display gage, control relay switches, and a transmitter with current output. Combining these three features allows the reduction of several instruments with one product, saving inventory, installation, time and money. The Digihelic® controller is the ideal instrument for hazardous area pressure, velocity and flow applications by allowing for the selection of pressure, velocity or volumetric flow operation in several commonly used engineering units. Two SPDT control relays with adjustable dead bands are provided along with a scalable 4-20 mA signal to coincide with the actual flow curve. Flameproof enclosures are available in aluminum and can include a glass window for viewing process information and set point status on the digital display.

**APPLICATIONS**

- Hazardous area pressure measurement and switching
- Increased response time at low pressures with LD port configuration
- Flameproof enclosure with optional glass window and aluminum housing protects the device in hazardous areas while giving local visibility to process pressure
- Flameproof enclosures are ATEX/IECEx approved products
- Saves inventory, installation time, and money by consolidating several instruments into one ATEX/IECEx approved product

**BENEFITS/FEATURES**

- Hazardous area pressure measurement and switching
- Accessible via menus in safe zone only.
- Zero and Span Adjustments: 900 Ω max.
- Power Consumption: ≤ 3 VA max.
- Switch Type: SPDT
- Electrical Rating: 1 A @ 30 VAC/VDC
- Service: Air and non-combustible, compatible gases.
- Wetted Materials: Consult factory.
- Housing Material: Die cast aluminum case and bezel.

**SPECIFICATIONS**

- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Housing Material:** Die cast aluminum case and bezel.
- **Accuracy:** ±1% for 0.25 in w.c. and ±0.25% in w.c. ranges. Ranges 0.5 in w.c. ±0.5% @ 77°F (25°C) including hysteresis and repeatability (after 1 hour warm-up).
- **Stability:** ±1% per year.
- **Pressure Limits:** See pressure limit chart.
- **Temperature Limits:** 32 to 140°F (0 to 60°C).
- **Thermal Effects:** 0.020%/°F (0.036/°C) from 77°F (25°C); For 0.25 in w.c. ±0.25% in w.c. ranges: ±0.03%/°F ±0.05%/°C.
- **Power Requirements:** 12-28 VDC, 12-30 mA DC into 3 VA max.
- **Power Consumption:** 3 VA max.
- **Output Signal:** 4-20 mA DC into 3 VA max.
- **Zero and Span Adjustments:** Accessible via menus in safe zone only.
- **Response Time:** 250 ms (damping set to 1). Without considering delay caused by Exd flame arrestors (up to 30 s from FS to zero depending model and ranges with STD pressure ports) about 15 s with LD pressure ports on very low ranges.

**ENCLOSURE RATING**

- **IP66** (IP65 for versions VS1, VS2, VL1).

**DIAL SIZE**

- 5˝ (127 mm) OD x 3-1/8˝ (79.38 mm).

**WEIGHT**

- 12.3 lb (5.6 kg).

**ATEX CERTIFICATE**

- ATEX: EPT 19 ATEX 3192 X.

**WARNING**

- Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**USA: California Proposition 65**