**Series DHH**

**Digihelic® II Differential Pressure Controller**

NEMA 4 (IP66) Housing With Large, Bright LCD, Square Root Output for Flow

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**The Digihelic® II Controller just got better with the New Series DHH Differential Pressure Controller.** The DHHII takes all the fabulous features of the standard Digihelic® Pressure Controller and packages them in a robust NEMA 4 (IP66) housing.

The Digihelic® Pressure Controller combines the 2 SPDT control relays, 4-20 mA process output and Modbus® communications with a large, brightly backlit digital display that can easily be seen from long distances. The electrical wiring has also been enhanced in the DHHII with its detachable terminal blocks.

The removable terminals allow the installer to easily wire the terminal block outside the housing and then attach to the circuit board, reducing wiring difficulties and installation time in the process.

The Digihelic® II Differential Pressure Control in the new NEMA 4 (IP66) enclosure enables this product to be the perfect choice when mounting pressure controls outdoors in such applications as rooftop air handlers. This housing also makes it the ideal solution for surface mounting in clean rooms or facilities where water or a cleaning solution is utilized in maintaining plant cleanliness.

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**ACCESSORIES**

- **351-9, Mother Node™** silver RS-232 to RS-485 Converter with DB9F Connector. Includes 120 VAC to 12 VDC adapter. $165.00
- **MN-1, Mini-Node™** USB/RS-485 converter. $77.50
- **Digihelic Links™**, Includes mounting screws. .
- **A-302, Static Pressure Tip**
- **A-301, Static Pressure Tip**
- **A-489, 4" Straight Static Pressure Tip with Flange**
- **A-302F-A, 303 SS Static Pressure Tip with mounting flange. For 3/16" tubing**
- **A-438, 4" Insertion Depth.**
- **A-301, Static Pressure Tip**
- **A-302, Static Pressure Tip**

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**SPECIFICATIONS**

**Service:** Air and non-combustible, compatible gases.

**Wetted Materials:** Consult factory.

**Housing Material:** Aluminum, glass.

**Accuracy:** ≤ ±0.5% at 77°F (25°C) including hysteresis and repeatability (after 1 hour warm-up).

**Stability:** < ±1% per year.

**Pressure Limits:** Ranges ≤ 2.5 in w.c. = 2 psi; 5": 5 psi; 10": 10 psi; 25": 5 psi; 50": 5 psi; 100": 9 psi.

**Temperature Limits:** 32 to 140°F (0 to 60°C).

**Compensated Temperature Limits:** 32 to 140°F (0 to 60°C).

**Thermal Effects:** 0.020%/°F (0.036%/°C) from 77°F (25°C).

**Power Requirements:** High voltage power = 100 to 240 VAC, 50 to 60 Hz or 132 to 240 VDC; Low voltage power = 24 VDC ±20%.

**Power Consumption:** Low voltage power = 24 VDC - 130 mA max; High voltage power = 100 to 240 VAC, 132 to 240 VDC - 7VA max.

**Output Signal:** 4-20 mA DC into 900 Ω max.

**Zero & Span Adjustments:** Accessible via menus.

**Display:** 4 digit backlit LCD 0.6" height; LED indicators for set point and alarm status.

**Electrical Connections:** Euro type removable terminal blocks with watertight conduit fittings for 1/2" watertight conduit.

**Process Connections:** 1/8" female NPT.

**Enclosure Rating:** Designed to meet NEMA 4 (IP66).

**Mounting Orientation:** Mount unit in horizontal plane.

**Weight:** 2 lb 10 oz (1.19 kg).

**Serial Communications:** Modbus® RTU, RS485, 9600 baud.

**Agency Approvals:** CE, UL.

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**SWITCH SPECIFICATIONS**

**Switch Type:** 2 SPDT relays.

**Electrical Rating:** 8 amps at 240 VAC resistive.

**Set Point Adjustment:** Adjustable via keypad on face.