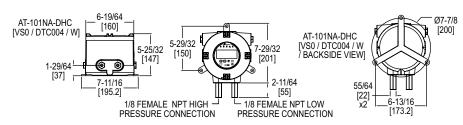
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ATEX/IECEX APPROVED DIGIHELIC® DIFFERENTIAL PRESSURE CONTROLLER Series DHC with Flameproof ATEX/IECEX Enclosure





The Series AT-DHC 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 both current and voltage outputs. Combining these 3 features allows the reduction of several instruments with one product, saving inventory, installation time, and cost. The Series AT-DHC ATEX/IECEX Approved Digihelic® differential pressure controller is the ideal instrument for hazardous area pressure, velocity, and volumetric flow applications reading in several commonly used engineering units with optional unidirectional or bidirectional ranges. These units achieve a 1.5% or better accuracy on extremely low ranges, and 0.5% accuracy for ranges at or above 1 in w.c. Calibration can be performed in the field (in safe zone only) making maintaining its accuracy more manageable. Additionally, the Series AT-DHC Digihelic® differential pressure controller includes 2 SPDT control relays with adjustable deadbands. Programming the unit is simple using the built-in menu. With scalable 4-20 mA, selectable voltage process outputs, and selectable Modbus® or BACnet communication, this controller can easily fit into your application. Flameproof enclosures are available in aluminum and can include a glass window for viewing process information and set point status on the digital display. Controller is a 3-in-1 instrument possessing a digital display gage, control relay

BENEFITS/FEATURES

- All the capabilities and value of the Series DHC in an ATEX/IECEx approved
- Long service life and minimized downtime due to durable, rugged housing and high-quality components
- High impact strength and high temperature rated for applications where hazardous environments exist

APPLICATIONS

· Hazardous area pressure, velocity, and volumetric flow measurement and switching

SPECIFICATIONS

Service: Air and non-combustible, com-

patible gases.

Wetted Materials: Consult factory.

Accuracy: ±0.5% FSO for all ranges, except 0.5 in w.c. @ ±1% FSO, and ranges at or below ±0.25 in w.c. @ ±1.5% FSO. Stability: < ±1% / year FSO.

Temperature Limits: -4 to 158°F (-20 to 70°C). (**Note:** Product temperature limits differ from case).

Pressure Limits: See pressure limit

Power Requirements: 12-28 VDC, 12-

28 VAC 50 to 400 Hz. **Output Signal:** 4-20 mA (4-wire); 0-10 V, 0-5 V, 1-5 V, and 2-10 V (4-wire).

Response Time: 400 ms (damping set to 0). **Zero and Span Adjustments:** Accessi-

ble via menus in safe zone only.

Power Consumption: 3 VA max. Display: Backlit LCD display, LED set-point indicators.

Mounting Orientation: Not position sensitive.

Enclosure Rating: IP66 (IP65 for ver-

sions VS1, VS2, and VL1).

Housing Material: Aluminum.

Finishing: Texture epoxy coat RAL7038.

Process Connections: 1/8" female NPT

Electrical Connections (Device): 15 pin male high density D-sub connection; 18" (46 cm) cable with 15 conductors included

Electrical Connections (Enclosure): Two 1/2" NPT female. Cable gland not

ncluded.

Switch Type: 2 SPDT relays.
Electrical Rating: 1 A @ 30 VAC/VDC.
Set Point Adjustment: Adjustable via menus in safé zone only.

Communication: BACnet MS/TP or Modbus® RTU.

Supported Baud Rate: 9600, 19200,

38400, 57600, 76800, 115200. **Device Load:** 1/8 unit load.

Thermal Effects: 0.02% FS / °F (0.036%

FS / °C). Weight: 12.3 lb (5.6 kg). ATEX Certificate: INERIS

1ATFX0033X

IECEx Certificate: IECEx INE 21.0064X. Compliance: ATEX: C€ 0080 @ II 2G Ex db IIC 75, T6 Gb -60°C≤Ta≤+50°C (T6) -60°C≤Ta≤+60°C (T5); II 2D Ex tb IIIC T75°C Db; IECEx: Ex db IIC T5, T6 Gb -60°C≤Ta≤+50°C (T6) -60°C≤Ta≤+60°C (T5) Ex tb IIIC T75°C Db.

MODEL CHART								
Example		-101NA	-DHC	-002	-B	1VS0	12	AT-101NA-DHC-002-B1VS012
Enclosure	AT							ATEX/IECEx approved enclosure
Housing Material		101NA						Aluminum enclosure
Series			DHC					Digihelic® differential pressure controller
Range				002 003 004 006 008 009 010 011 202 203 204 206 208 209 55 056 0253 082 082 082 282 282				0.25 in w.c. 0.5 in w.c. 1 in w.c. 2.5 in w.c. 2.5 in w.c. 10 in w.c. 25 in w.c. 100 in w.c. 25 in w.c. 40.25 in w.c. 40.25 in w.c. 41 in w.c. 41 in w.c. 42.5 in w.c. 41 in w.c. 42.5 in w.c. 45 in w.c. 41 in w.c. 42.5 m.c.
Cover					B W			Blind Glass window
Port/Valve Configurations					.,	1VS0 1VL0 1VS1 1VS2 1VL1 2VS0 2VL0 2VS1 2VS2 2VL1		Brass with STD port/no valve Brass with LD port/no valve Brass with STD port/STD valve Brass with STD port/LD valve Brass with STD port/LD valve Brass with LD port/no valve SS with STD port/no valve SS with LD port/no valve SS with STD port/STD valve SS with port/LD valve SS with port/LD valve
Cable Entry							12	
Oubio Entry								THE THE TANGET COME DILECT

	One Pressure	Both Pressure
Port/Valve	Port Connected	Ports Connected
VS0	10 kPa	10 kPa
VL0	10 kPa	10 kPa
VS1	20 kPa	15 kPa
VS2	40 kPa	20 kPa
VL1	20 kPa	15 kPa

USA: California Proposition 65 WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.