

SERIES AT2DH3 | ATEX/IECEx APPROVED DH3 DIFFERENTIAL PRESSURE CONTROLLER



FEATURES/BENEFITS

- 3-in-1 ATEX/IECEx approved instrument allows the reduction of several instruments with one product, saving inventory, installation time and money
- Flame-proof enclosure with optional glass window and aluminum housing protects the device in hazardous areas while giving local visibility to process pressure and set point status

APPLICATIONS

· Hazardous area pressure measurement and switching

DESCRIPTION

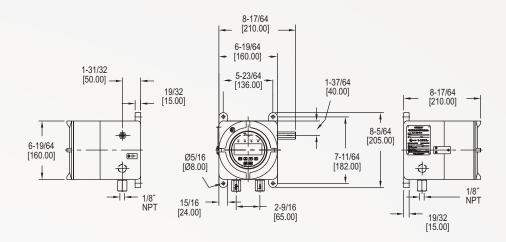
The Series AT2DH3 ATEX/IECEx Approved DH3 Differential Pressure Controller is a 3-in-1 instrument possessing a digital display gage, control relay switches, and a transmitter with current output. Combining these three features allows the reduction of several instruments with one product, saving inventory, installation time and money. The ATEX/IECEx approved 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 process output. In velocity or flow modes, a square root output is provided on the 4-20 mA signal to coincide with the actual flow curve. Flame-proof enclosures are available in aluminum and can include a glass window for viewing process information and set point status on digital display.

SPECIFICATIONS

3FLCII ICATION3					
Service	Air and non-combustible, compatible gases.				
Wetted Materials	,				
Housing Material	Die cast aluminum case and bezel.				
Accuracy	(
	1 hour warm-up).				
Stability	1 ,				
Pressure Limits	Ranges ≤ 2.5 in w.c.: 25 psi; ±2.5", 5 in w.c.: 5 psi; 10 in w.c.: 5 psi; 25 in w.c.: 5 psi; 50 in w.c.: 5 psi; 100 in w.c.: 9 psi.				
Temperature Limits	32 to 140°F (0 to 60°C) (Note: Product temperature limits differ from case).				
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Temperature Limits					
	t 0.020%/°F (0.036/°C) from 77°F (25°C).				
	12 to 28 VDC, 12 to 28 VAC 50 to 400 Hz.				
Power Consumption	3 VA max.				
	4 to 20 mA DC into 900 Ω max.				
Zero & Span Adjustments	ts Accessible via menus in safe zone only.				
Response Time	250 ms (damping set to 1).				
Display	Backlit 4 digit LCD 0.4" height LED indicators for set point and alarm status.				
Electrical Wiring	g Screw terminal.				
Mounting Orientation	on Mount unit in vertical plane.				
Dial Size	ze 5" (127 mm) OD x 3-1/8" (79.38 mm).				
Enclosure Rating	ng (IP66). IP65 with option OPV, overpressure relief valve.				
Housing Material	Aluminum.				
Finishing	Texture epoxy coat RAL7038.				
Pressure Connections	1/8" NPT female brass (SS optional). In presence of acetylene it is necessary to use SS.				
Electrical Connections	Two 1/2" FNPT. Cable gland not included.				
Weight	ht 12.3 lb (5.6 kg).				
ATEX Certificate	ate BVI 14ATEX0072.				
Agency Approvals ATEX Compliant (€ 1370 © II 2G Ex d IIC T6 Gb / II 2D Ex tb IIIC T85°C Db, -60°C≤Tamb≤+60°C IECEx Con					
	d IIC T6 Gb / Ex tb IIIC T85°C Db				

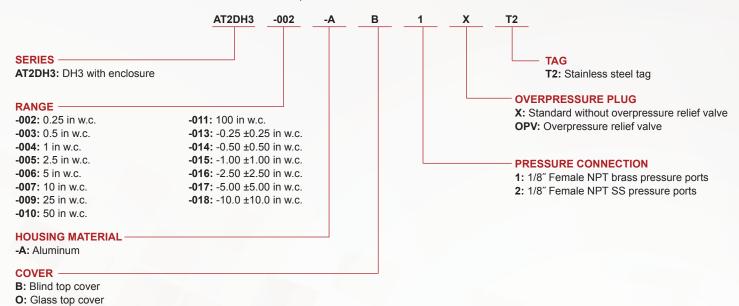
SWITCH SPECIFICATIONS

Switch Type	2 SPDT relays.
Electrical Rating	1 A @ 30 VAC/VDC.
Set Point Adjustment	Adjustable via keypad on face in safe zone only.



HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.



NOTES			
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ORDER ONLINE TODAY!

dwyer-inst.com/Product/SeriesAT2DH3



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