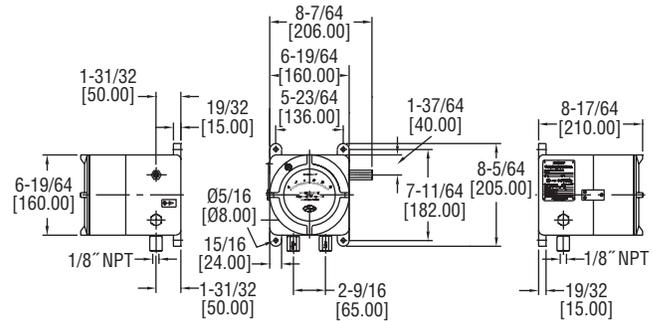


# ATEX APPROVED 605 DIFFERENTIAL PRESSURE INDICATING TRANSMITTER

Series 605 in Flame-Proof ATEX Enclosure



The ATEX approved **SERIES AT2605** Indicating Transmitter provides for both visual monitoring and electronic control of very low differential pressure in hazardous locations. The easily read dial gage is complemented by the two-wire, 4 to 20 mA control signal utilizing the time-proven Dwyer® Magnehelic® gage mechanical design and Series 600 transmitter technology. The two-wire design simplifies any 4 to 20 mA control loop powered by a 10 to 35 VDC supply. Flame-proof ATEX enclosures are available in aluminum and can include a glass window for viewing process pressure on gage face.

**FEATURES/BENEFITS**

- ATEX housing provides all the capabilities and value of the Magnehelic 605 in a flame & explosion proof enclosure
- Quick response to pressure changes means no delay in assessing critical situations
- Durable and rugged housing and high-quality components combined provides long-service life and minimized down-time
- High impact strength and high temperature rated for applications where hazardous environments exist

**APPLICATIONS**

- Monitor pressures in ducts, rooms, or total building pressures
- Filter monitoring
- Local indication of clean room pressures with process signal sent to control room
- Hazardous area pressure measurement and transmitter

**SPECIFICATIONS**

**GAGE SPECIFICATIONS**

**Service:** Air and non-combustible, compatible gases.  
**Wetted Materials:** Consult factory.  
**Accuracy:** See page reference 1 below.  
**Pressure Limits:** See page reference 1 below.  
**Temperature Limits:** 20 to 120°F (-6.67 to 48.9°C); Case: -76 to 140°F (-60 to 60°C) (**Note:** Product temperature limits differ from case).  
**Size:** 4" (101.6 mm) dial face.

**TRANSMITTER SPECIFICATIONS**

**Accuracy:** See page reference 1 below. Includes linearity, hysteresis, repeatability.  
**Compensated Temperature Range:** 32 to 120°F (0 to 48.9°C).  
**Thermal Effect:** ±0.025% FS/°F (0.045% FS/°C).  
**Stability:** ±1% FS/year.  
**Power Requirements:** 10 to 35 VDC (2-wire).  
**Output Signal:** 4 to 20 mA.

**Zero and Span Adjustments:** Protected potentiometers on 605 face. Can access those by opening case. Allowed only in safe zone.  
**Loop Resistance:** DC: 0 to 1250 Ω max.  
**Current Consumption:** DC: 38 mA max.  
**Electrical Connections:** Screw terminal block.  
**Mounting Orientation:** Diaphragm in vertical position.  
**Enclosure Rating:** IP66. IP65 with option OPV, overpressure relief valve.  
**Housing Material:** Aluminum.  
**Finishing:** Texture epoxy coat RAL7038.  
**Process Connections:** 1/8" NPT female brass (SS optional). In presence of acetylene it is necessary to use SS.  
**Electrical Connections:** Two 1/2" NPT female. Cable gland not included.  
**Weight:** 12.6 lb (5.7 kg).  
**ATEX Approved Products from Comhas with ECN:** BVI 14ATEX0072.  
**Agency Approvals:** CE 1370 Ex d IIC Gb T6; -60°C ≤ Ta ≤ +60°C Ex tb IIIC Db T 85°C.

MODEL CHART									
Example	AT2605	-00N	-X	-A	B	1	X	T2	AT2605-00N-X-AB1XT2
<b>Series</b>	AT2605								ATEX approved 605 differential pressure indicating transmitter
<b>Range</b>		00N 11 0 1 2 3 6 10 20 30 50 60Pa 125Pa 250Pa 500Pa							.05 to 0 to .20 in w.c. .25 to 0 to .25 in w.c. 0 to .50 in w.c. 0 to 1.0 in w.c. 0 to 2.0 in w.c. 0 to 3.0 in w.c. 0 to 6.0 in w.c. 0 to 10.0 in w.c. 0 to 20.0 in w.c. 0 to 30 in w.c. 0 to 50 in w.c. 0 to 60 Pa 0 to 125 Pa 0 to 250 Pa 0 to 500 Pa
<b>Construction</b>			X						Standard construction
<b>Housing</b>				A					Aluminum
<b>Cover</b>					B O				Blind Glass top cover
<b>Process Connection</b>						1 2			1/8" NPT female brass ports 1/8" NPT female SS ports
<b>Overpressure Plug</b>							X OPV		Standard without overpressure relief valve Overpressure relief valve Material same as ports
<b>Tag</b>								T2	SS information label