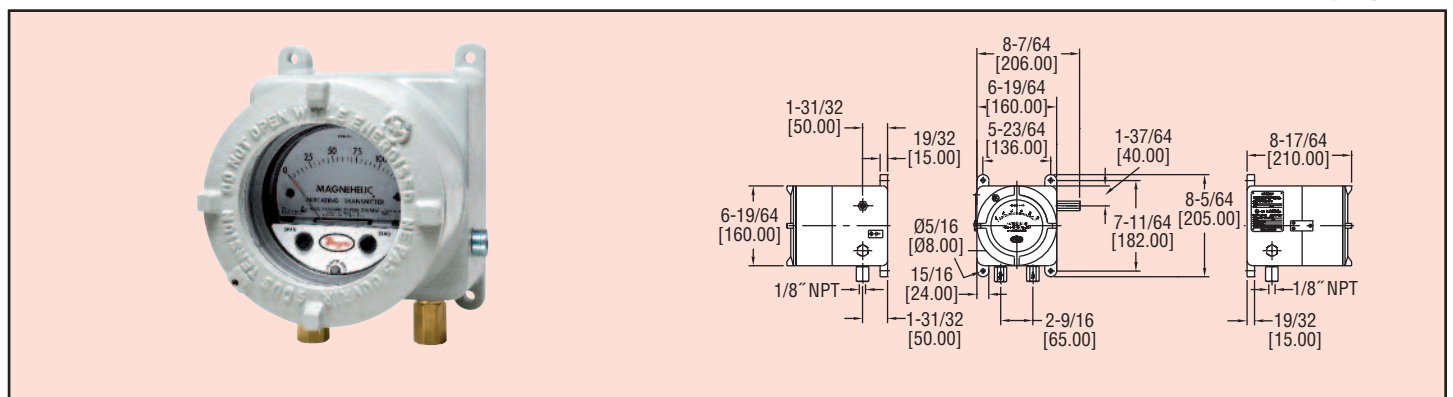




Series AT2605

# 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 complimented 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.

**Important notes for installation:**

- Cables must be fitted through 1/2" NPT cable gland or ATEX conduit (not supplied with instrument).
- Make sure after cabling to close tight cover and cable gland, in order to keep IP66 rating (IP65 with option OPV, overpressure relief valve).
- Open cover only after de-energizing instrument.
- **Attention:** Check local safety rules and warnings on unit and manual for a correct use of the instrument in hazardous area.

**SPECIFICATIONS**

- GAGE SPECIFICATIONS**  
**Service:** Air and non-combustible, compatible gases.  
**Wetted Materials:** Consult factory.  
**Accuracy:** See 605 ordering page.  
**Pressure Limits:** See 605 ordering page.  
**Temperature Limits:** 20 to 120°F (-6.67 to 48.9°C); Case: -58 to 140°F (-50 to 60°C) (**Note:** Product temperature limits differ from case).  
**Size:** 4" (101.6 mm) dial face.

**TRANSMITTER SPECIFICATIONS**

- Accuracy:** See 605 ordering page (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 ohms 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.  
**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:** 2.6 lb (5.7 kg).  
**ATEX Approved Products from Comhas with ECN:** NEMKO 10ATEX1096.  
**Agency Approvals:** CE 0470 Ex II2 GD Ex d IIC Gb T6; -50°C ≤ Ta ≤ +60°C Ex tb IIIC Db T 85°C.

<b>Model</b>	AT2605								
<b>Range</b>	-00N -11 -0 -1 -2 -3 -6 -10 -20 -30 -50 -60 Pa -125 Pa -250 Pa -500 Pa								.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>Option</b>		-X							Standard construction
<b>Housing Material</b>			-A						Aluminum
<b>Housing Options</b>				B O					Blind Glass top cover 1/8" NPT female brass ports 1/8" NPT female SS ports Standard without overpressure relief valve Overpressure relief valve Material same as ports SS information label
					1 2		X		
							OPV		
								T2	