SERIES AT2605 | ATEX APPROVED 605 DIFFERENTIAL PRESSURE TRANSMITTER

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 rating for applications where hazardous environments exists**

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

DESCRIPTION

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.

DWYER INSTRUMENTS, INC.
T: 219-879-8000 | F: 219-872-9057 | info@dwyermail.com
800-872-9141

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: -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 605 ordering page (includes linearity, hysteresis, repeatability).
Comp. 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.
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	12.6 lb (5.7 kg).
ATEX Approved Products from Comhas with ECN	BVI 14ATEX0072.
Agency Approvals	CE 1370 II2 GD Ex d IIC Gb T6; -60°C ≤ Ta ≤ +60°C Ex tb IIIC Db T 85°C.

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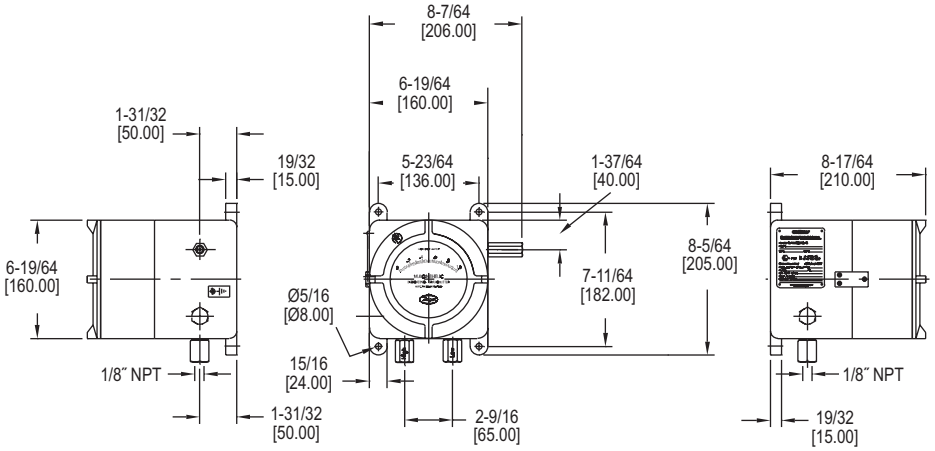
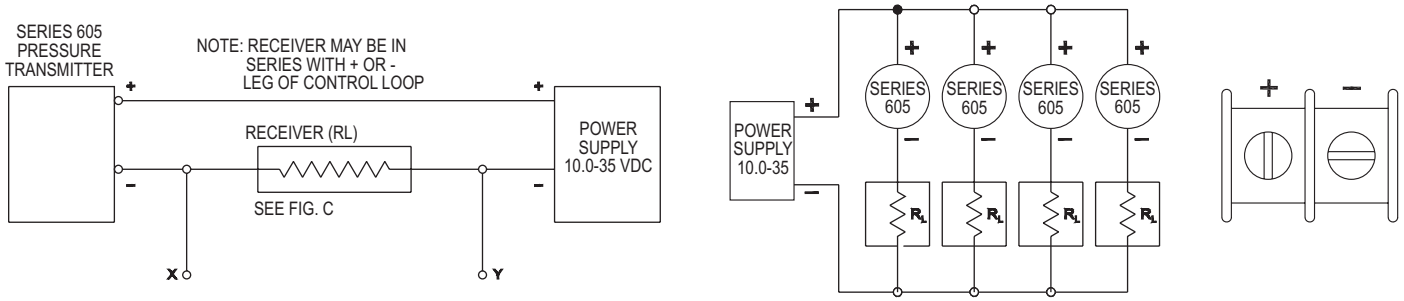
DIMENSIONS



WIRING DIAGRAM



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HOW TO ORDER

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

AT2605	-1	-X	-A	B	1	X	T2

SERIES
AT2605 - 605 with ATEX enclosure

RANGE
-0: 0 to 0.50 in w.c.
-1: 0 to 1 in w.c.
-2: 0 to 2 in w.c.
-3: 0 to 3 in w.c.
-4: 0 to 4 in w.c.
-5: 0 to 5 in w.c.
-60PA: 0 to 60 Pa
-125PA: 0 to 125 Pa
-250PA: 0 to 250 Pa
-500PA: 0 to 500 Pa

CONSTRUCTION
-X: Standard construction

HOUSING MATERIAL
-A: Aluminum

TAG
T2: Stainless steel tag

OVERPRESSURE PLUG
X: Standard without overpressure relief valve
OPV: Overpressure relief valve

PRESSURE CONNECTION
1: 1/8″ NPT female brass ports
2: 1/8″ NPT female SS ports

COVER
B: Blind top cover
O: Glass top cover

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