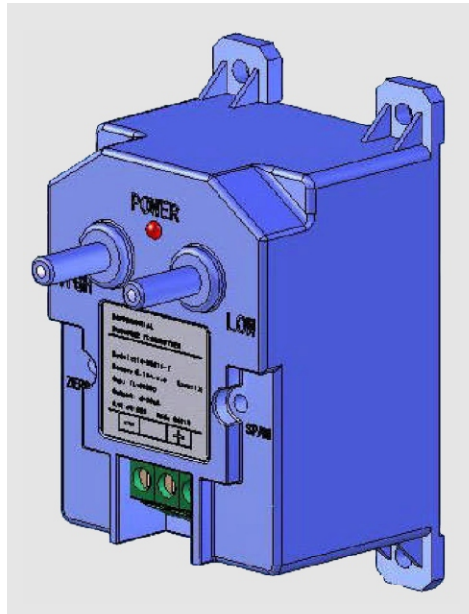


OPERATION MANUAL

DFT Series-Differential Pressure Transmitter-Fixed Range

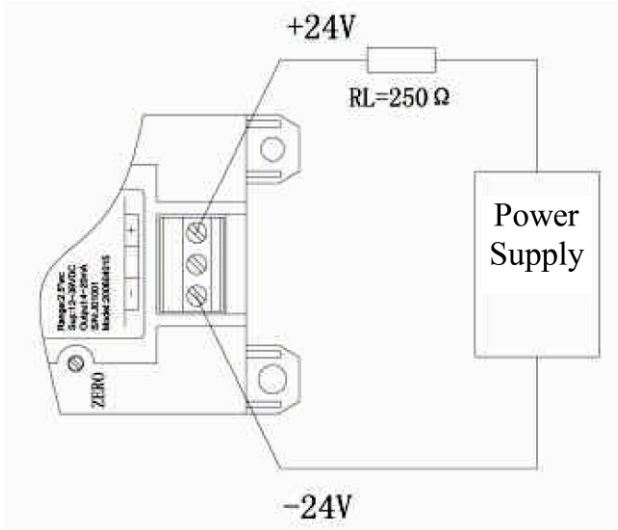
Thank You for selecting **ABUSTEK** products! before operating this instrument, please read this manual carefully and fully understand its contents. In case of any problems, please contact our sales Deptt. or distributors from whom the instrument has been supplied. The manual contents is subject to change without prior notice.

Introduction

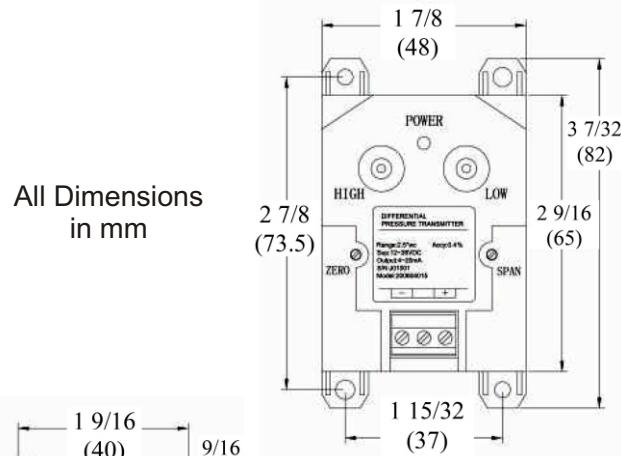


The **DFT Series**, Differential Pressure Transmitter - Fixed Range can accurately measure negative, positive, combination of both (compound), or differential pressure mainly applied to air and neutral gases. The DFT Series is not position sensitive and can be mounted in any orientation without compromising accuracy. The DFT series has a lightweight, compact and simplified design makes it suitable for industrial applications.

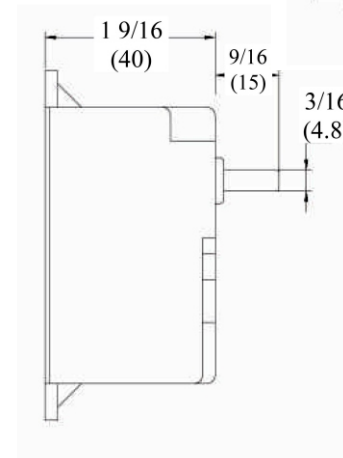
Connections



Dimensions



All Dimensions in mm



All Dimensions in mm

Features

1. Lightweight and Simplified Design
2. Compact Design
3. 0.25 % Accuracy
4. LED Power Indication
5. Easy Installation
6. 2-Wire, 4~20 mA output.

Applications

- Air and Neutral Gases
- HVAC Applications
- Clean Room Applications
- Filter Status
- Duct Static Pressure
- Fan and Blower Pressure
- Paint Shops
- Dust Collectors
- Bubbler Systems
- Cabinet Purging

Specifications

Maximum Pressure: Ranges = 5 PSI – Max 15 PSI

Ranges > 5 PSI – Max 30 PSI

Media compatibility: Air and compatible non combustible, non corrosive gasses.

Accuracy: Ranges = 4" w.c. 1.0%
Ranges = 5" w.c. 0.5% or 0.25%

Temperature Ranges:

Compensated: 15°to120°F(-10°to50°C)

Operating: -10°to155°F(-25°to70°C)

Thermal Effect: +/- 0.028% FS/°F

Stability: +/- 0.25% FS/year

Output Signal: 4-20 mA, 2-wire

Loop Resistance: 250 @ 24 VDC

Power Supply: 12-30 VDC

Housing Material: ABS Plastic

Electrical Connections: Screw Terminals

Process Connection: Push on connection for 1/8" I.D. tubing

■ Installation

Mounting

The Transmitter should be mounted in a clean, dry location free from excess vibration. The transmitter can be mounted in any orientation and should be attached using the 4 holes provided over the housing.

Pressure Connection

Two push on pressure connections are located on the front of the unit, labeled “High” and “Low”. For best results, connect 1/8” I.D. push on tubing to the pressure connections. For differential pressure measurement, the higher pressure should be connected to the “High” pressure port. For positive pressure, the “Low” pressure port should be left vented to atmospheric pressure. For negative pressure measurement, the “High” pressure port should be vented to atmospheric pressure.

■ Calibration

The Product is factory calibrated and should not require calibration out of the box. Periodically, it may be necessary to re-calibrate the gauge to maintain the accuracy of the product. To “zero” the gauge, remove the pressure connections from both pressure ports and adjust the zero potentiometer until the output is 4 mA. To “span” the gauge, apply the full scale pressure to the High pressure port and adjust the span potentiometer until the output is 20 mA. To properly calibrate the product, it is necessary to have an accurate pressure standard. If you do not have one available or would like calibration traceable to NIST, please contact ABUS Technologies Inc.

■ Ordering Details

TYPE		DESCRIPTION	
Product	DFT	Differential Fixed Transmitter	
Size	8	48 (W) x 82 (H) x 40 (D) mm	
Power Supply	A	24V DC	
Analogue Output	D	4~20mA DC Output	
	V	0 – 10 V DC	
Connections	2	2-Wire System	
	4	4-Wire System	
Ranges	1G	0-250 Pa	0-1” W.C.
	2G	0-500 Pa	0-2” W.C.
	3G	0-1 KPa	0-4” W.C.
	4G	0-2.5 KPa	0-10” W.C.
	5G	0-7 KPa	0-26.7” W.C.
	6G	0-35 KPa	0-138.4” W.C.
*G=Gauge Pressure	7G	0-100 KPa	0-415.2” W.C.
	8G	0-200 KPa	0-830.4” W.C.
*CP= Compound Pressure	1CP	125-0-125 Pa	0.5-0-0.5” W.C.
	2CP	250-0-250 Pa	1-0-1” W.C.
	3CP	500-0-500 Pa	2-0-2” W.C.
	4CP	1.25-0-1.25 KPa	5-0-5” W.C.
	5CP	50-0-50 KPa	200-0-200” W.C.
	6CP	100-0-100 KPa	415.2-0-415.2” W.C.

Example: DFT > 8 > A > D > 2 > 1CP

■ Limited Warranty

The products are warranted to be free from defects in materials and workmanship for a period of one (1) year from the date of shipment, subject to the following terms and conditions: Without charge, they will repair, replace, or refund the purchase price at option products found to be defective in materials or workmanship within the warranty period; provided that:

- the product has not been subjected to abuse, neglect, accident, incorrect wiring not our own, improper installation or servicing, or use in violation of labels or instructions;
- the product has not been repaired or altered by anyone except us;
- the maximum ratings label and serial number or date code have not been removed, defaced, or otherwise changed;
- examination discloses, in the judgment of us, the defect in materials or workmanship developed under normal installation, use and service; and
- Our system is notified in advance of and the product is returned to us transportation prepaid before expiration of the warranty period.

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Authorised Distributor :