

DPT-300 (Built-In Housing Type Differential Pressure Transmitter)

Differential Pressure Transmitter

- Differential Pressure Transmitter DPT-300
- Dynamic Pressure Type Differential Pressure Transmitter without any variation by the position
- 128 x 64 Graphic LCD Display (With Back Lighting)
- Measurement range -500 ~ +500 Pa (Full Scale)
- Excellent long-term stability
- Easy to adjust zero-point calibration
- Analog Current Output(4 ~ 20mA)
- Low/High alarm(Option)



DPT-300

DPT-300 Product Summary

Built-In Housing Type The Accurate Differential Pressure Transmitter (Model : DPT-300) measures the pressure difference by heating the air using dynamic pressure measurement technology. The DPT-300 adopted the character LCD display(128 x 64 with Backlight) so that the data are easily recognized in the dark.

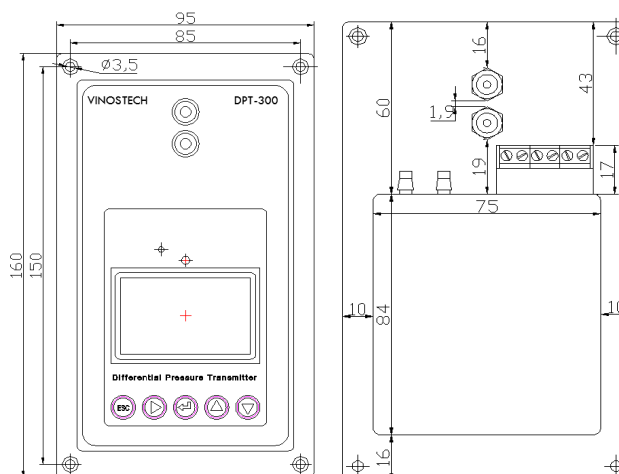
The DPT-300 offers 1) different pressure measurement & display 2) 4-20mA Current Output, Low / High Alarm function and 3) more easier zero-point calibration to adjust small error easily which can be often occurred during long-term use of this unit.

Also, DPT-300 features the differential pressure calibration for every section, allowing users to easily get more accurate measurement values.

Applications

- HVAC
- Air conditioning
- Calibration room
- Laboratory
- Automotive
- Process Automation
- Storage
- Medical Center etc.

Dimensions



1. Feature

- The DPT-300 can measure the pressure difference.
- The measurement range is -500...+500Pa(Full Scale), and user can optionally set the measurement range. e.g) -50...+50Pa
- Alarm (Option)
 - The DPT-300 has Low/High alarm function. Whenever user set the alarm function in DPT-300, the alarm will ring properly according to user's setting.
- Automatic Zero-Point Calibration
 - The DPT-300 features an automatic zero-point calibration function in the field. Refer to DPT-300 User's Guide for the details.
- Excellent Differential Pressure Calibration / Output function
 - The DPT-300 features differential pressure calibration for every section, allowing users to easily get more accurate measurement values.
 - User can easily calibrate both display value and output value due to the separate calibration function of 4-20mA current output..
- Filtering Set (Sensitivity setting)
 - User can set up response time of DPT-300 more faster / slower.

2. Specification

Physical Specifications

Measuring Range	-500...+500 Pa	
Unit of Measurement	Pa, mmH2O	
Accuracy	Zero Point accuracy	0.1 Pa
	Span Accuracy	1% of Reading
Repeatability	Zero Point Repeatability	0.5 Pa
	Span Repeatability	0.5% of Reading
Offset/Span shift due to Temperature variation	Offset	None
	Span	< 0.5% of Reading Per 10℃
Response Time	4.6 ms Typical	
Offset Stability	< 0.1 Pa / Year	
Position Sensitivity	Less Than Repeatability Error	
RoHS	The DPT-300 Series is Fully RoHS Compliant	

Electrical/Housing Specifications

Power Input	24VDC@1A
Current Consumption	0.3A (Max 0.5A)
Operating Temperature	0 ~ 70℃
Storage Temperature	-40 ~ 80℃
Case Material	Stainless Steel, Steel
Current Output	4~20mA Current Output (3Wire System, 16bit Resolution)
Output Max. Load	500 Ohm(General 250 Ohm)
Alarm Output (Option)	LCD Display, LED Display(3 Color Display) Relay Output 1A/30VDC, 0.5A/125VAC (N.O or N.C output when alarm rings.
Display	Graphic LCD 128×64 with White Backlight
User Interface	Programmable 5 Keys Push Buttons Switch