DIFFERENTIAL PRESSURE TRANSMITTERS **DPT-DUAL-MOD SERIES**

Differential pressure transmitter with two pressure sensors for air and an Input terminal for two analog inputs for external signal conversion into Modbus

DPT-Dual-MOD combines two differential pressure transmitters into one device. It offers a possibility to measure pressure from two different points. It has a Modbus interface and an Input terminal. When using the Input terminal, temperature transmitters can be replaced with temperature sensors. As a result you will save in costs of the devices and in the installation costs. The AHU model that includes an air flow transmitter has been designed especially for ventilation units.

SIMILAR PRODUCTS

- DPT-2W series differential pressure transmitters with 4-20 mA 2-wire configuration
- DPT-R8 series 8-range differential pressure transmitters
- DPI series electronic differential pressure switches
- PS series mechanical differential pressure switches
- DPT-FLOW series airflow transmitters

APPLICATIONS

DPT-Dual-MOD series devices are commonly used in HVAC/R systems for:

- fan, blower and filter monitoring
- pressure and flow monitoring
- valve and damper control
- pressure monitoring in cleanrooms

DPT-Dual-MOD-AHU can also be used for:

- air flow monitoring across centrifugal fans and blowers
- in-duct air flow monitoring
- VAV applications

MODEL SUMMARY

	DPT-Dual-MOD-2500 -2502500		DPT-Dual-MOD-7000 -2507000		DPT-Dual-MOD-AHU -2502500 and -2507000	
Measurement ranges (Pa)						
Description	Model	Product code	Model	Product code	Model	Product code
Differential pressure transmitter with two pressure sensors, Modbus configu- ration and display	DPT-Dual-MOD- 2500-D	120.007.006	DPT-Dual-MOD-7000-D	120.016.006		
Differential pressure transmitter with two pressure sensors, flow measure- ment, Modbus configuration and display			-	1	DPT-Dual-MOD- AHU-D	120.016.013











DIFFERENTIAL PRESSURE TRANSMITTERS **DPT-DUAL-MOD SERIES**

SPECIFICATIONS

Performance Accuracy (from applied pressure): Model 2500: Pressure < 125 Pa = 1 % + ±2 Pa Pressure > 125 Pa = 1 % + ±1 Pa Model 7000: Pressure < 125 Pa = 1.5 % + ±2 Pa Pressure > 125 Pa = 1.5 % + ±1 Pa (Including: general accuracy, linearity, hysteresis, long term stability and repetition error) Input accuracy: < 0.5 % **Response time:** 1...20 s selectable via menu Overpressure: Proof pressure: 25 kPa Burst pressure: 30 kPa

Communication

Protocol: MODBUS over Serial Line Transmission Mode: RTU Interface: RS485 Byte format (11 bits) in RTU mode: Coding System: 8-bit binary Bits per Byte: 1 start bit 8 data bits, least significant bit sent first 1 bit for parity 1 stop bit Baud rate: selectable in configuration Modbus address: 1-247 addresses selectable in configuration menu

Zero point calibration options:

• Manual pushbutton autozero

Via Modbus write coil

HOW TO GENERATE A MODEL?

Technical Specifications

Media compatibility: Dry air or non-aggressive gases Measuring units on display (Selectable via menu): Pressure: Pa, kPa, mbar, inchWC, mmWC, psi Flow (AHU model): m3/s, m3/hr, cfm, l/s, m/s, ft/min Measuring element: MEMS, no flow-through Environment: Operating temperature: -20...+50 °C Temperature compensated range: 0...+50 °C Storage temperature: -40...+70 °C Humidity: 0 to 95 % rH

Physical

Dimensions: Case: 102.0 x 71.5 x 36.0 mm Weight: 150 g, with accessories 290 g Mounting: 2 each 4.3 mm screw holes, one slotted Materials: Case: ABS Lid: PC Pressure inlets: Brass Duct connectors: ABS Tubing: PVC Protection standard: IP54 Display: 2-line display (12 characters/line) Line 1: active measurement, inlet A Line 2: active measurement, inlet B If inputs are selected, the lines show also input information (for example temperature)

Electrical Connections:

4+4 spring load terminals, max 1.5 mm² Cable Entry: M20 Pressure connections: Male ø 5,0 mm and 6,3 mm

Electrical

Supply voltage: 24 VAC or VDC ± 10 % Power consumption: < 1.3 W Output signal: via Modbus Input signals: 2x input (0-10 V, NTC10k, Pt1000, Ni1000/(-LG), or BIN IN)

Conformance

Meets requirements for CE marking: EMC directive 2014/30/EU RoHS Directive 2011/65/EU WEEE Directive 2012/19/EU

COMPANY WITH MANAGEMENT SYSTEM **CERTIFIED BY DNV GL** = ISO 9001 = ISO 14001 =



Example:	Product Series						
DPT-Dual-MOD-2500-D	DPT-Dual-MOD	D Differential pressure transmitter with two pressure sensors and Modbus configuration					
		Highest available measurement range					
		-2500	-2502500 Pa				
		-7000 -2507000 Pa					
		-AHU	4U both 2500 and 7000 sensors, with flow measurement				
			Display				
			-D	With display			
Model	DPT-Dual-MOD	-2500	-D				



幸託有限公司

XIN TOP CORPORATION

TEL : (02)2598-1199 E-mail : info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com