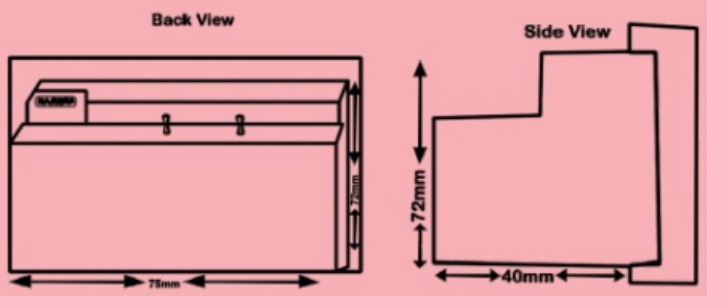
AEROSENSE™

SERIES ADPRHT

AEROSENSE MULTI-PARAMETER DISPLAY/TRANSMITTER



Technical Specifications:

Sensor Type:
1) Polymer sensing for Temperature
2) Capacitive polymer sensing for Relative Humidity
3) Piezo Resistive Sensor for Differential Pressure

Range:
1) -30.0 to +50.0 Deg. C typical for Temperature
2) 0.0 to 100.0 % RH typical for Relative humidity
3) 0.0 to +25.0 mm. W.C. / 0 to 250 Pascals
(Any other customized range as per user specifications)

Resolution:
Fixed 0.1 for both Temperature and Relative humidity
0.1 mm. W.C. or 1 Pascal for Differential Pressure

Accuracy:
1) ±0.5 C for -30 to 50° C for Temperature
2) +/- 1.8% for 10 to 95% RH for Relative humidity
3) +/- 0.5% F.S. for Differential Pressure

Display:
3 Line Red 7 Segment LED Display.
4 Digits for Differential Pressure on Line 1.
4 Digits for % RH. (Humidity) on Line 2.
4 Digits on Temperature (Deg. C) on Line 3.

Display Height Options - 0.4" High Standard, Optional 1" High Display
Differential Pressure Entry: 2 Nos. 4 mm. Hose Nipples at top.
Setting: By 4 keys on the front stainless steel panel.
Buzzer: Integrated buzzer for Alarm in case of process violation of any of the 3 parameters
Supply Voltage: 24VDC , 250mA

Mounting: Wall mounting / Modular Wall Mounting with Stainless Steel Front Flush Plate for Clean Rooms
Sensors: Integrated Humidity & Temperature Sensor flushed to front plate Built in differential pressure sensor with Brass HoseNipples (Chrome Plated) for Differential Pressure At Rear (4 mm x 2 Nos.)
Optional External Humidity & Temperature Sensor
Communication: RS 485 Modbus Protocol (Optional)
Output: 4-20mA (Optional)
Dimension: Enclosure: 74(W) x 72(H) x 40(D) mm.
Stainless Steel Front Plate: 110W x 90(H) mm
Enclosure: M.S. Power Coated body with Stainless Steel Front Flush Plate for Modular Wall Mounting/Optional Brick Wall Mounting.
Weight: 300 gms. Approx.

Application:

Finds extensive application in Pharma Clean Rooms, HVAC, Environmental, Pharma Machinery, across filters, hospital isolation rooms, operation theatres & laboratories. Precision of measurement in HVAC duct pressure application makes this instrument suitable for optimization of energy & thereby its conservation in ventilation systems. Analog Output & RS 485 Communication lead to easy integration with Variable Frequency Drives & SCADA/BMS systems.

Example	ADPRHT	-EX	-15M	-CA	-LED	ADPRHT-EX-15M-CA-LED
Display Parameters	ADPRHT					Differential Pressure/RH & temperature
	ARHT					Relative Humidity/Temperature
	ADPRHTC					Differential Pressure/RH & temperature/Clock
	ARHTC					Relative Humidity/Temperature/Clock
Sensor Location FOR RHT		-EX				External
		-IB				Inbuilt
Optional Length of Cable For External Sensor			-XXM			In Meters (Eg: 15M for 15 Meters)
Optional Analog Output/ Communication				-A		4-20 mA
				-V		0-10 VDC
				-C		RS 485 Modbus Communication
				-CA		4-20 mA & RS 485 Modbus Communication
Display Size					-LED	Standard 0.4 Inch Display
					-1LED	Inch Display
					-15LED	1.5 Inch Display
					-2LED	2 Inch Display

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