

HUMIDITY, TEMP., DIFF. PRESSURE INDICATOR FOR CLEANROOMS

⚙ Description :

The Clean Room Monitor is designed to measure the vital parameters of Temperature, Humidity & Differential Pressure in CleanRoom Applications.

The Model DPRHT is designed for minimum cabling & easy flush mounting in Modular Wall or Brick Walls of Clean Rooms. The sensors for all 3 parameters are integrated inside for ease of use& installation.

The Model DPRHT is optionally available for Remote Sensors for humidity, temperature & integrated differential pressure. The 3 parameters are displayed on the instrument using external transmitters — Combined Humidity & Temperature Transmitter (HP1) and internal Differential Pressure Transmitter.

Standout features in the Clean Room Monitor include integrated buzzer for parameter violation indication, individual LED for process violation, buzzer enable/disable feature & buzzer delay option and any other customized solution.

The instruments find immense use in Pharma Clean Rooms, APIs, Bulk Drugs, Electronic Hardware Manufacturing Plants, Test Plants, Green Houses, etc. Easy integration to Building Management Systems (BMS) & SCADA interfacing allow easy set up & great control.



⚙ Features :

Resolution	:	Fixed 0.1 for both Temperature & Relative humidity, 0.1 mm.
		W.C. or 1 Pascal for Differential Pressure
Accuracy	:	1) $\pm 0.50^{\circ}\text{C}$ for -30° to 50°C for Temperature
		2) $\pm 1.8\%$ for 10 to 95% RH for Relative humidity.
		3) $\pm 0.5\%$ F.S. for Differential Pressure
Display	:	3 Line Red 7 Segment LED Display.
		3 Digits for Differential Pressure on Line 1.
		3 Digits for % R.H. (Humidity) on Line 2.
		3 Digits for Temperature (Deg. C) on Line 3.
		Display Height Options - 0.5" High Standard ,
		Optional 0.8" High Display
		Optional Real Time Clock (HH:MM)
Differential Pressure Entry	:	2 Nos. 4 mm. Hose Nipples at top
Setting	:	By 4 keys under 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/ 230V AC

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Features :

Mounting	:	Modular Wall mounting with Stainless Steel Front. Flush Plate for Clean Rooms for external sensors
Sensors	:	Integrated Humidity & Temperature Sensor flushed to front plate Built in differential pressure sensor with Brass Hose Nipples (Chrome Plated) for Differential Pressure At Rear (4mm x 2 Nos.) Optional External Humidity & Temperature Sensor
Communication	:	RS 485 Modbus Protocol (Optional)
Dimension	:	Enclosure : 74(W) X 72(H) X 40(D) mm.
Stainless Steel Front Plate	:	110W x 90 (H) mm
Enclosure	:	M.S. Powder Coated Body with Stainless Steel Front Flush Plate for Modular Wall Mounting /Optional Brick Wall Mounting

HOW TO ORDER

Basic Model :

DPRHT

Output :

A

-	No Output	A	4-20mA
M	MODBUS RS485		

Display Size :

5

5	0.5" Led Display	1	0.8" Led Display
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Power Supply :

24

24	24VDC	230	230VAC
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Sensor :

R

I	Internal Sensor	R	Remote Sensor
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HOW TO ORDER

⚙️ Cable Length :				5	⚙️
5	5 meters	10	10 meters		
20	20 meters				
⚙️ Diff. Pressure Range :				10	⚙️
10	0 to 10	25	0 to 25		
50	0 to 50	100	0 to 100		
⚙️ Diff. Pressure Units :				MM	⚙️
MM	MM of Water Column	PA	Pascal		
⚙️ Shape :				-	⚙️
C	Circular	-	Rectangular (Standard)		
⚙️ Real Time Clock :				RTC	⚙️
-	No RTC	RTC	Synchronized RTC		

Ordering Example: DPRHT-A-5-24-R-5-10-MM-RTC



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