

### RH+T+DP CLEAN ROOM MONITOR

# enviroDPMS

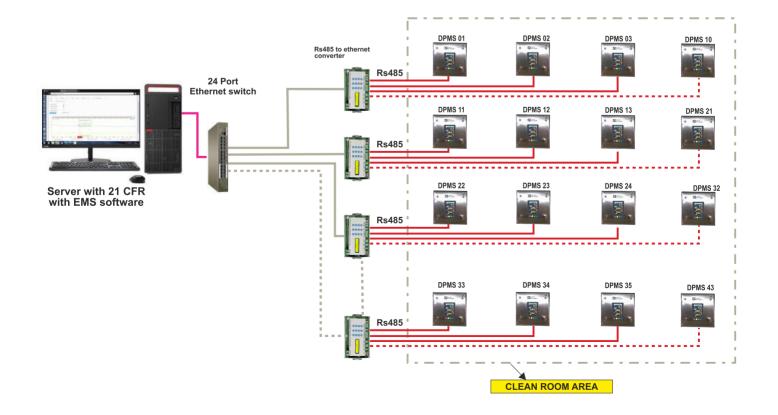
Assists in GMP and Data Integrity in multiple pharma clean rooms

#### **FEATURES**

- Microcontroller based
- RH, Temperature & DP measurement
- 3.5 inch color LCD/TFT display
- Software programmable channel ranges, units & input types
- User programmable for 1, 2 or 3 channel measurement
- Real Time Clock with battery back-up
- Software calibration for channels
- MODBUS / TCP multidrop communication for PLC, SCADA, etc.
- 24 VDC, 1 AMP Power Supply
- FDA 21 CFR Part 11 Compliance EMS software
- Advanced digital RH+T sensor technology



## **BMS - CLEAN ROOM MONITORING SYSTEM**



COMMUNICATION

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	INPUTS No. of inputs Input RH	3 (RH, T, DP) a) 0-1 V DC b) 4~20 mA c) In-built Digital RH + T Sensor
	Input T	a) PT-100 b) 0-1 V DC c) 4~20 mA e) In-built Digital RH + T Sensor
	Input DP	a) 0-1 V DC b) 4~20 mA c) In-built digital DP sensor Potential free digital input
	Input Range %RH Temperature DP	0~100% RH PT-100: -90°C ~ 390°C (user selectable) Digital: 0°C ~ 100°C (user selectable) -250 ~ 900Pa, -25 ~ 90 mmWC (user selectable)
	Accuracy For In-built Sensors %RH Temperature DP  For External Sensor %RH Temperature DP	± 2% RH ± 0.3 °C ± 1.5% of reading ± 5 Pa, ± 1.5% of reading ± 0.5 mmWC ± 2% RH (depending on sensor) ± 0.5% (depending on sensor) ± 0.5% (depending on sensor)
	INDICATION Display type	3.5 inch color LCD/TFT display
	OUTPUTS Buzzer output	External Potential free relay output for Buzzer
	CLOCK Real time clock Battery backup	Available Available (Optional)
	<b>ENCLOSURE</b> Construction	a) In-built RH+T+DP in front sensing b) In-built RH+T+DP sensing at rear c) RH+T+DP from external transmitters/Sensors d) In-built DP sensing, External RH + T transmitter
	MOC Faceplate Body Dimensions (in mm)  Mounting	SS304 MS, powder coated Front Plate - 210(W)x210(H) Back Plate - 190(W)x150(H)x32(D) mm
	Modular Puff panel Brick wall	a) 50 mm or more b) 100 mm or more 50 mm or more
l	Cutout (in mm)	173(W) x 165(H)

32 bit MCU
Rs485
K5463
MODBUS, Enviro Proprietary
User programmable, 1~128
Read only Read & write from the host computer Read only Read & write from the host computer
0 ~ 100 -40.0 ~ 90.0 °C -19.9 ~ 19.9 mmWC -199 ~ 199 Pa 0.1 for RH & T 0.1 for DP unit mmWC 1 for DP unit Pa
User selectable User selectable, 0~250 min Password Protected
Through Capacitive Touch keypad 24 V DC, 1 amp 0~50 °C Below 90%, non condensing
Multiple Cleanrooms & Multiple Plants can be monitored centrally Alarms & Alerts by way of Pop-ups, Email & SMS can be sent to multiple authorities Cloud Enabled Web Interface SQL Server Database (SQL) & GUI both supports audit trail Audit Report, MIS Reports, Alarm Report & Graphs for audit & analysis. Also value added customization of reports is possible

#### We help pharma companies in GDP, GMP & 21 CFR compliance....

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- → With enviroDPMS & its EMS software it is now possible to simultaneously & accurately monitor DP, RH & Temperature in multiple clean rooms in the Pharma plant, with due Data integrity about the logging of these parameters.
- → The clean room door open/close event is closely monitored & duly logged for any DP changes which are correlated for audits.
- → In event of any deviations pop-up alarms are generated on the monitor of central administrator along with text message & email to concerned officials also a hooter alarm is generated in the corridor.
- → Feature Rich MIS reports are generated in PDF format in compliance with the 21 CFR guidelines of the US FDA thereby assuring accuracy & Data integrity.

Note: All specifications are subject to change without notice due to continuous improvements.







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PRESENCE: