

THE CLEAN ROOM MONITOR

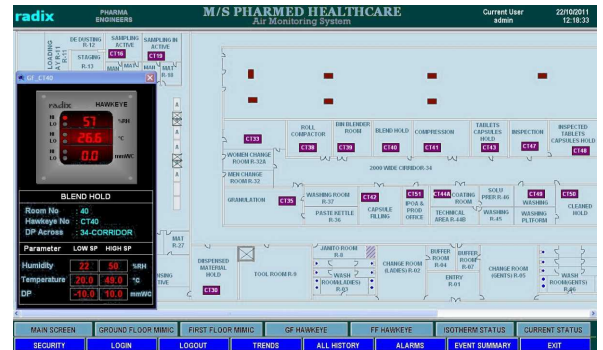
RH+T+DP INDICATOR with RTC



FEATURES

- Microcontroller based
- RH, Temperature & DP measurement
- 4-row, 0.56" (14.2 mm), large, bright LED display
- Software programmable channel ranges, units & input types
- User programmable for 1,2 or 3 channel measurement
- 3 programmable Alarms with visual annunciation
- Output to drive external hooter
- Real Time Clock with battery back-up
- Synchronised with server clock via RS485
- Software calibration for all 3 channels
- Calibration history / schedule for validation
- RS485/MODBUS RTU multidrop communication for PLC, SCADA, etc.
- 85~265 VAC SMPS supply
- Powerful, user-friendly SCADA available
- FDA 21CFR Part11 compliant SCADA version also
- Advanced digital RH+T sensor technology

SCADA SOFTWARE



SCADA Software - Elipse E3

- Flexible trend facility - current and historical
- Alarm function
- Allows read (acquire data) & write (program setpoint, etc) operations
- Supports thousands of tags
- Supports upto 32 or more instruments
- Capable of storing data upto 10 years
- Default screen selection

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SPECIFICATIONS

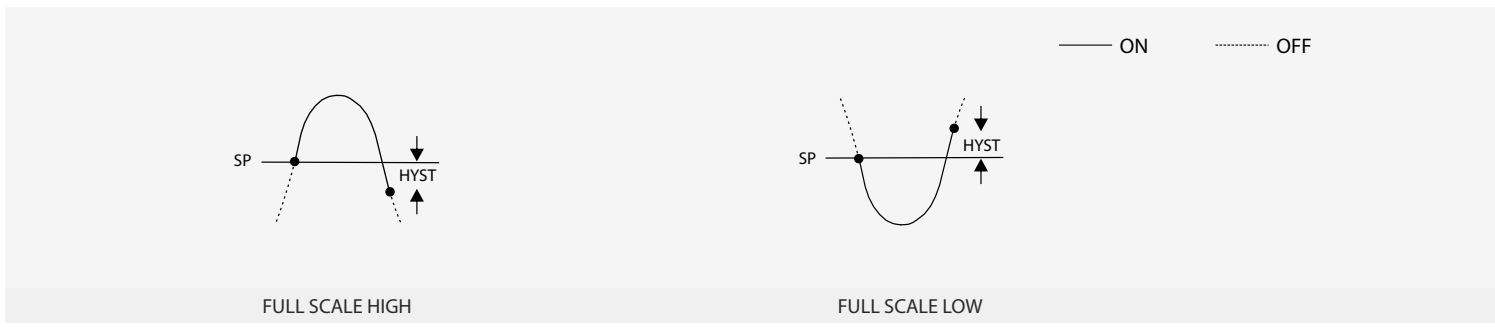
All specifications at ambient of 25 °C, unless specified otherwise

INPUTS No. of inputs Input RH Input T Input DP Transmitter supply (V _{TX}) Range %RH Temperature DP Accuracy For Integral Sensors %RH Temperature DP For Remote Input %RH Temperature DP		3 (RH, T, DP) a) Integral, radix RH+T sensor b) 0-1 V DC c) 0-10 V DC d) 4~20 mA a) Integral, radix RH+T sensor b) 0-1 V DC c) 0-10 V DC d) 4~20 mA a) 0-1 V DC b) 0-10 V DC c) 4~20 mA 20 V nominal, 100 mA max 0~100% RH -19.9 ~ 90.0 °C (user selectable) -199 ~ 900Pa, -19.9 ~ 90.0mmWC (user selectable) ± 2% RH ± 0.3 °C ± 1.5% of reading ± 5 Pa, ± 1.5% of reading ± 0.5 mmWC ± 1% RH ± 0.25% of span (min ±0.2 °C) ± 0.25% of span (min ±0.3 mmWC)
RTC ACCURACY Stand-alone mode Slave with SCADA as Master		±5 seconds per day Same as Server RTC ±10 sec
INDICATION % RH Temperature Differential Pressure Real Time Clock Status indication		Window 1, 3 digit, 7 segment 0.56" (14.2 mm) red LED display Window 2, 3 digit, 7 segment 0.56" (14.2 mm) red LED display Window 3, 3 digit, 7 segment 0.56" (14.2 mm) red LED display Window 4, 4 digit, 7 segment 0.56" (14.2 mm) red LED display LEDs for visual alarms, RS485 signals
OUTPUTS Relay output No. of visual alarms		NO-C-NC 6
COMMUNICATION Port Baud rate Protocol Slave ID Minimum polling interval Parameters Process variables Setpoints Alarm status Input bias RTC Synchronization		RS485, isolated 9600 bps Modbus RTU User programmable, 1~247 200 milliseconds Read only Read & write from the host computer Read only Read & write from the host computer Read & write from the host computer
MOC Enclosure Sensor tube Filter		LM6, pressure die-cast SS304 Sintered bronze
ENCLOSURE Certification Protection Dimensions (in mm) Cable entry size Mounting		Flameproof for Gas Groups I, IIA & IIB IP65, except sensor tube a) 180(H) x 150(W) x 140(D) b) 148(H) x 148(W) x 105(D) 3/4" ET, 5 Nos OR 3 Nos. Wall / Surface
PROGRAMMABLE PARAMETERS Setpoint % RH Temperature DP Resolution Digital filter Hysteresis Alarm logic (Fig 1) Alarm type Setpoint lock		0 ~ 100 -19.9 ~ 90.0 °C -19.9 ~ 90.0 mmWC -199 ~ 900 Pa 1 for RH 0.1 for T 0.1 for DP unit mmWC 1 for DP unit Pa A (minimum) ~ F (maximum) User selectable a. Full scale high b. Full scale low Self reset ON, OFF
OTHER Programming Supply voltage Power consumption Operating ambient temperature Relative humidity		Through 3 tactile keys 85~265 V AC, 50/60 Hz 4 watts maximum 0~50 °C Below 90%, non condensing

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FIG 1 ALARM LOGIC



ORDERING INFORMATION

2397 - A B C D E F G

Product code	A	B	C	D	E	F	G
2459	1	1	1	1	1	1	1
	2	2	2	2	2	2	2
	3		3	3	3	3	3
			4	4	4		
			5	5			

CAT#533R2/A

ENQUIRIES

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 Level: level@radix.co.in

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