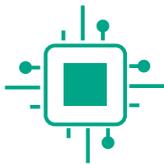
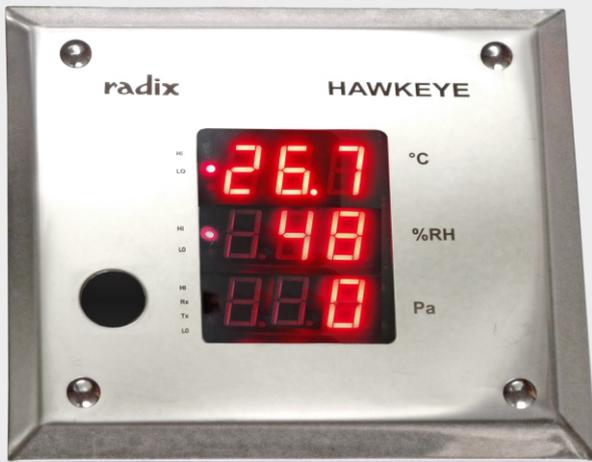


# THE CLEAN ROOM MONITOR

RH+T/DP Indicator with RTC

# HAWKEYE



Integral RH+T+DP Sensor



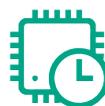
RS485 Modbus<sup>®</sup> RTU



3 Alarms with Buzzer



AHU Potential Free  
Digital Input



Real Time Clock



IP65 (NEMA 3SX) Front

# THE CLEAN ROOM MONITOR

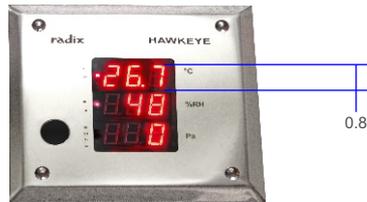
RH+T/DP Indicator with RTC

# HAWKEYE

## DIFFERENT DISPLAY OPTIONS



HAWKEYE RTC  
4 rows (3 PV with RTC)



HAWKEYE  
3 rows (3 PV)



HAWKEYE  
2 rows (2 PV)

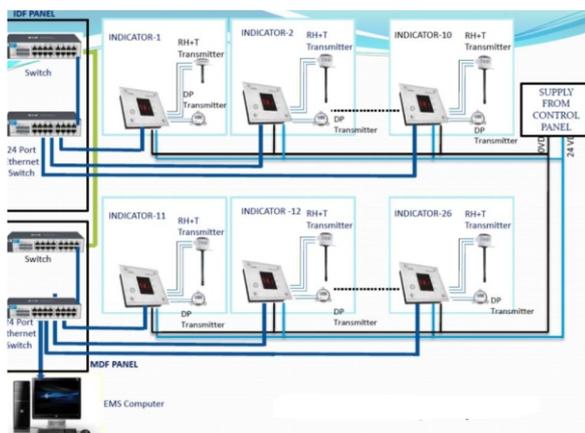
## NO TOUCH ALARM ACKNOWLEDGE



## COMPACT DESIGN/LOW DEPTH

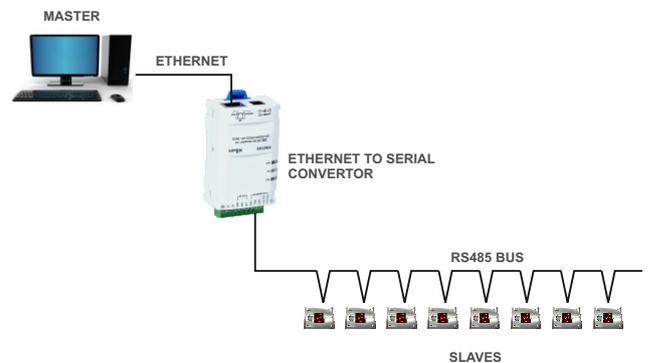


## COMPATIBLE WITH ANY SCADA, PLC, HMI SOFTWARE



FTP for file transfer

## RS485 Modbus® RTU



# THE CLEAN ROOM MONITOR

RH+T/DP Indicator with RTC

**HAWKEYE**

## SPECIFICATIONS

All specifications at ambient of 25°C, (77°F) unless specified otherwise

INPUTS	
No. of inputs	3 (RH, T, DP)
Input - Relative Humidity	a) Integral, radix RH+T sensor b) 0-10 VDC c) 4-20 mA d) Received from RS485 Modbus® RTU master
Input - Temperature	a) Integral, radix RH+T sensor b) 0-10 VDC c) 4-20 mA d) Received from RS485 Modbus® RTU master
Input - Differential Pressure	a) Integral Radix DP sensor b) 0-10 VDC c) 4-20 mA d) Received from RS485 Modbus® RTU master
Transmitter supply (VTX)	20 V nominal, 100 mA max
Range	
Relative Humidity	0-100% RH (user selectable)
Temperature	-40 to 120°C (-40 to 248°F) (user selectable)
Differential Pressure	-199 to 900 Pa, -19.9 to 90.0 mmWC (user selectable)
Accuracy	
For Integral Sensors	
Relative Humidity	±2% RH
Temperature	±0.3°C (32.54°F)
Differential Pressure	±1.5% of reading ±3 Pa, ±1.5% of reading ±0.3 mmWC
For Remote Input	
Relative Humidity	±1% RH
Temperature	±0.25% of span (min ±0.2°C)
Differential Pressure	±0.25% of span (min ±0.3 mmWC)
RTC ACCURACY	
Stand-alone mode	±3 seconds per day
Slave with SCADA as Master	Same as Server RTC ±3 sec
INDICATION	
2-row	
Relative Humidity	Window 1, 3 digit, 7 segment 0.8" (20.3 mm) red LED display
Temperature	Window 2, 3 digit, 7 segment 0.8" (20.3 mm) red LED display
Status indication	LEDs for visual alarms, RS485 signals
3-row	
Relative Humidity	Window 1, 3 digit, 7 segment 0.8" (20.3 mm) red LED display
Temperature	Window 2, 3 digit, 7 segment 0.8" (20.3 mm) red LED display
Differential Pressure	Window 3, 3 digit, 7 segment 0.8" (20.3 mm) red LED display
Status indication	LEDs for open collector and visual alarms, RS485 signals
4-row	
Relative Humidity	Window 1, 3 digit, 7 segment 0.56" (14.2 mm) red LED display
Temperature	Window 2, 3 digit, 7 segment 0.56" (14.2 mm) red LED display
Differential Pressure	Window 3, 3 digit, 7 segment 0.56" (14.2 mm) red LED display
Real Time Clock	Window 4, 4 digit, 7 segment 0.56" (14.2 mm) red LED display
Status indication	LEDs for visual alarms, RS485 signals

# THE CLEAN ROOM MONITOR

RH+T/DP Indicator with RTC

# HAWKEYE

## SPECIFICATIONS

All specifications at ambient of 25°C, (77°F) unless specified otherwise

OUTPUTS	
Buzzer output	1
No. of visual alarms	6
No. of analog output	3 (current or voltage)
ANALOG OUTPUT	
Current	4-20 mA
Load for current output	0-500 Ω
Voltage	0-10 VDC
Load for voltage output	>10 kohms
CLOCK (FOR HAWKEYE RTC)	
Real time clock	Provided
Battery backup	Provided
COMMUNICATION	
Port	RS485, isolated
Baud rate	9600 bps, 19600 bps, 38400 bps
Protocol	Modbus® RTU
Slave ID	User programmable, 1-247
Minimum polling interval	200 milliseconds
Parameters	
Process variables	Read only
Setpoints	Read & write from the host computer
Alarm status	Read only
Input bias	Read & write from the host computer
RTC synchronization	Read & write from the host computer
ISOLATION	
Mutual isolation between input, supply, output	a) 1000 VAC RMS, 50 Hz/1 Minute b) 250 VAC RMS, 50 Hz, continuous
PROGRAMMABLE PARAMETERS	
Setpoint	
Relative Humidity	0-100
Temperature	-19.9 to 90.0°C
Differential Pressure	-19.9 to 90.0 mmWC
	-199 to 900 Pa
Resolution	1 for RH
	0.1 for T
	0.1 for DP unit mmWC
	1 for DP unit Pa
Digital filter	A (minimum) - F (maximum)
Hysteresis	User selectable
Alarm logic (Fig 2)	a. Full scale high b. Full scale low
Alarm type	Self reset
Alarm activation delay	User selectable, 0-999 sec/0-99 min
Alarm deactivation delay	User selectable, 0-999 sec/0-99 min
Setpoint lock	ON, OFF

# THE CLEAN ROOM MONITOR

RH+T/DP Indicator with RTC

# HAWKEYE

## SPECIFICATIONS

All specifications at ambient of 25°C, (77°F) unless specified otherwise

ENCLOSURE	
<b>Non-Flameproof</b>	
Ingress protection	We hereby confirm that our instrument has Degree of Protection IP65 (NEMA 3SX) from the facia side after installation with the gasket provided and proper sealing of the edges with a silicone sealant.
Construction	
Type A	Integral RH+T+DP in front sensing
Type B	Integral RH+T+DP sensing at rear
Type C	RH+T+DP from remote 2-wire transmitters/Sensors
Type D	Integral RH+T transmitter, DP sensing : Any
MOC	
Faceplate	SS304 mirror finish, SCC304 matt finish, Aluminum
Body	MS, powder coated
Dimensions	
In mm	200(W)x180(H)x31(D) mm
In inch	7.87(W)x7.08(H)x1.22(D) mm
Mounting	
Modular panel	50 mm or more
Brick wall	Using accessories grouting box and SS304 interface plate (both to be ordered separately)
In mm	177(W) x 165(H)
In inch	6.96(W) x 6.49(H)
<b>Flameproof</b>	
Certification	Flameproof for Gas Groups Exd IIA/IIB, Zone 1 & Zone 2
Ingress protection	IP66 (NEMA 4X*) as per IS/IEC 60529 : 2001, except sensor tube
Dimensions (in mm)	
In mm	200(H) x 210(W) x 50(D) (without cable gland), 260 x 250 (SS Plate)
In inch	7.87(H) x 8.26(W) x 1.96(D) (without cable gland), 10.23 x 9.84 (SS Plate)
Cable entry size	1/2" BSP (5 Nos. max) or M12 (6 Nos. max)
Mounting	Wall/Surface/Panel
Panel cutout	
In mm	225(W) x 210(H)
In inch	8.85(W) x 8.26(H)
<b>OTHER</b>	
Programming	Through 4 tactile keys
Supply voltage	a) 85-265 VAC, 50/60 Hz b) 20-30 VDC c) 20-30 VAC
Power consumption	4 watts maximum
Operating ambient temperature	0-50°C (32-122°F)
Relative humidity	Below 90%, non condensing

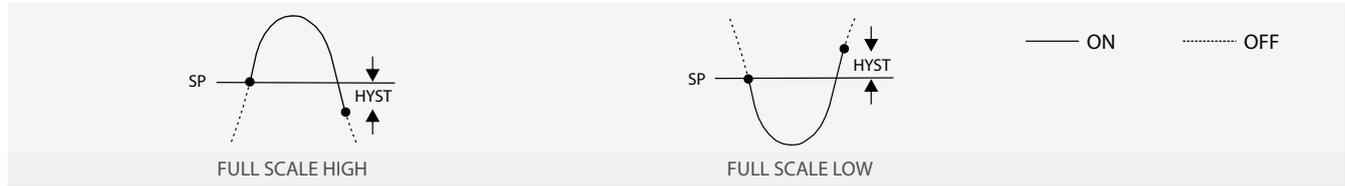
\* The product has been tested for IP66 rating against the standard IEC60529. The NEMA rating specified is the nearest equivalent to the IP66.

# THE CLEAN ROOM MONITOR

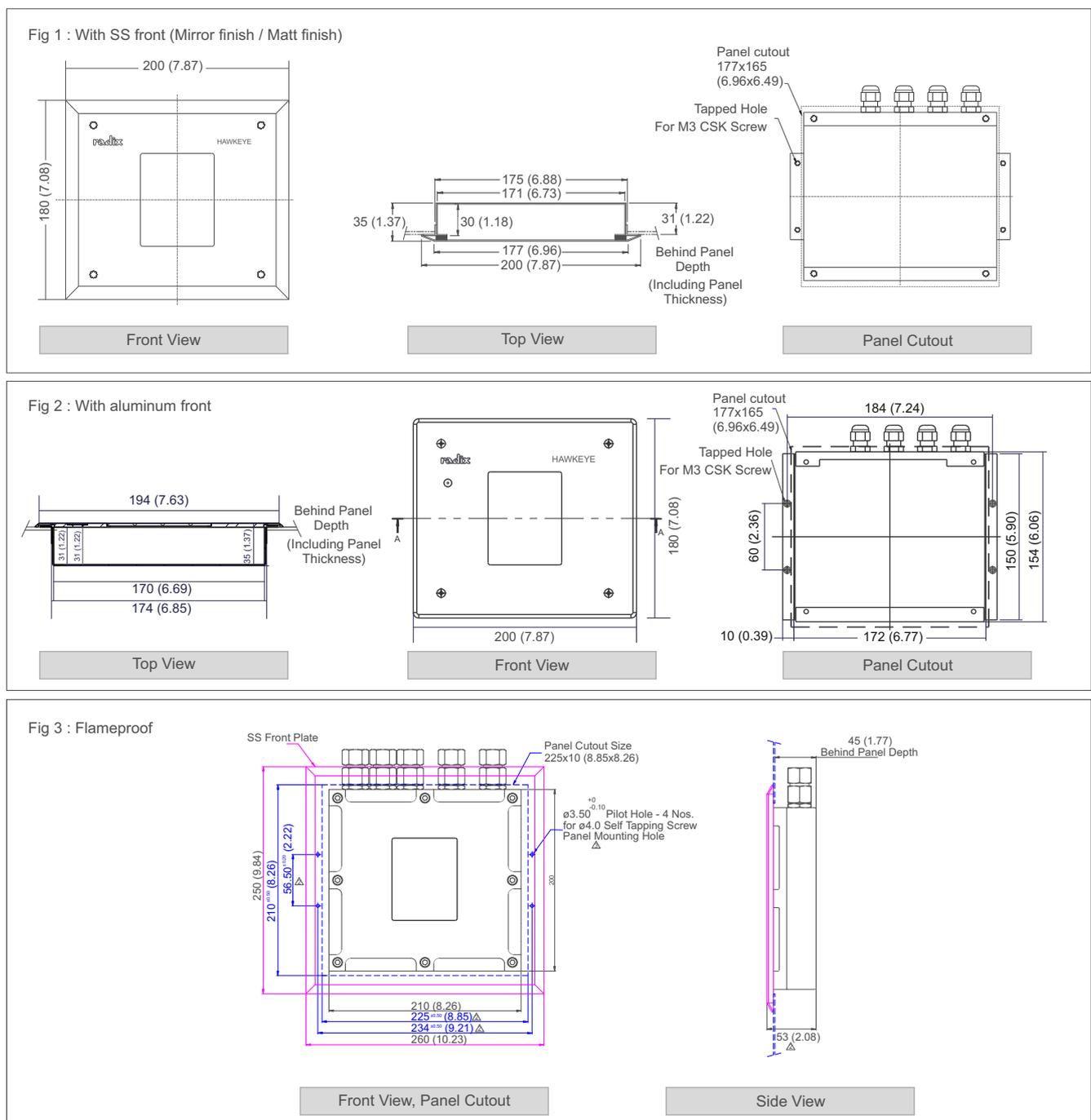
RH+T/DP Indicator with RTC

# HAWKEYE

## ALARM LOGIC



## DIMENSIONS mm



# THE CLEAN ROOM MONITOR

RH+T/DP Indicator with RTC



## ORDERING INFORMATION

### NON-FLAMEPROOF

CODE	SPECIFICATIONS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
2915	HAWKEYE																
2916	HAWKEYE RTC																
2917	HAWKEYE 2-ROW																
1	RH+T Sensing Position	None	1														
		Integral sensor front	2														
		Integral sensor rear	3														
		Remote transmitter	4														
2	DP Sensing Position	None		1													
		Integral sensor front		2													
		Integral sensor rear		3													
		Remote transmitter		4													
3	RH Input	None			1												
		Integral RH+T sensor			2												
		4-20 mA			3												
		0-10 VDC			4												
		From RS485 master			5												
4	Temperature Input	None				1											
		Integral RH+T sensor				2											
		4-20 mA				3											
		0-10 VDC				4											
		From RS485 master				5											
5	DP Input	None					1										
		Integral DP sensor					2										
		4-20 mA					3										
		0-10 VDC					4										
		From RS485 master					5										
6	DP Unit	None						1									
		mmWC						2									
		Pa						3									
7	AHU Input	None							1								
		Potential free input							2								
		Remote (through SCADA/RS485)							3								
8	RTC Display	Not provided								1							
		Yes (HH:MM)								2							
9	No. of Output	None									1						
		1									2						
		2										3					
		3											4				
10	Type of Output	None										1					
		4-20 mA										2					
		0-10 VDC											3				
11	Buzzer	None											1				
		Potential free input											2				
		Input with external supply											3				
		Output without AHU											4				
		Output with AHU											5				
12	Alarm ACK	None												1			
		No touch key												2			
		Alarm acknowledge key												3			
13	Communication	Not provided													1		
		RS485, Isolated													2		
14	Supply Voltage	85-265 VAC														1	
		20-30 VDC														2	
		20-30 VAC														3	
15	Front Plate	SS mirror finish															1
		SS matt finish															2
		Aluminum															3

CODE -1-2-3-4-5-6-7-8-9-10-11-12-13-14-15

Order Code Format : XXXX-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X

Example

Hawkeye, 3 x 4-20mA input (remote), Pa, AHU - potential free input, buzzer, RS485, 85-265 VAC supply, SS mirror finish plate  
2915-4-4-3-3-3-1-1-1-1-1-1-1-1-1-1-1-1

# THE CLEAN ROOM MONITOR

RH+T/DP Indicator with RTC

# HAWKEYE

## ORDERING INFORMATION

### FLAMEPROOF

CODE	SPECIFICATIONS	1	2	3	4	5	6	7	8	9	10	11	12
2918	HAWKEYE												
2919	HAWKEYE RTC												
2920	HAWKEYE 2-ROW												
1	RH Input	None	1										
		4-20 mA	2										
		0-10 VDC	3										
		From RS485 master	4										
2	Temperature Input	None		1									
		4-20 mA		2									
		0-10 VDC		3									
		From RS485 master		4									
3	DP Input	None			1								
		4-20 mA			2								
		0-10 VDC			3								
		From RS485 master			4								
4	DP Unit	None				1							
		mmWC				2							
		Pa				3							
5	AHU Input	None					1						
		Potential free input					2						
		Remote (through SCADA/RS485)					3						
6	RTC Display	Not provided						1					
		Yes (HH:MM, dd:mm:yy)						2					
7	No. of Output	None							1				
		1							2				
		2								3			
		3									4		
8	Type of Output	None								1			
		4-20 mA								2			
		0-10 VDC								3			
9	Buzzer	None									1		
		Potential free input									2		
		Input with external supply									3		
		Output without AHU									4		
		Output with AHU									5		
10	Alarm ACK	None										1	
		No touch key										2	
11	Communication	Not provided											1
		RS485, Isolated											2
12	Supply Voltage	85-265 VAC											1
		20-30 VDC											2
		20-30 VAC											3

CODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12

Order Code Format : XXXX-X-X-X-X-X-X-X-X-X-X-X-X

Example

Hawkeye, 3 x 4-20mA input (remote), Pa, AHU - potential free input, buzzer, RS485, 85-265 VAC supply  
2918-3-3-3-1-1-1-1-1-1-1-2-1

## CLEAN ROOM MONITOR

### ENQUIRIES

Email : [sales@radix.co.in](mailto:sales@radix.co.in)  
Call : + 91 93249 34061  
Website : [www.radix.co.in](http://www.radix.co.in)

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