

# HygroPol

# RhT75



HygroPol is a Handheld instrument that measures, displays and records Relative Humidity and Temperature with  $\pm 0.8\%$  Rh &  $\pm 0.1^{\circ}\text{C}$  accuracy. HygroPol can be used as a master to calibrate other instruments. The recorded data can be viewed on the display or it can be downloaded into PC through an USB port. 21CFR complaint reports can be generated by using a host software.

RhT75 has a real time clock to time stamp the recorded data.

RhT75 is perfect for spot checking HVAC installations, manufacturing and storage areas, and generally for all ambient air measurements within the temperature range of  $-10$  to  $60^{\circ}\text{C}$ .

It is well suited for a wide range of environment monitoring where Temperature/ RH conditions are critical.

## Features

- Measures Relative Humidity and Temperature
- Measurement Range for Rh is 0 to +100%
- Measurement Range for Temperature is  $-10$  to  $+60^{\circ}\text{C}$
- Accuracy Rh:  $\pm 0.8\%$ , Temp. :  $\pm 0.1^{\circ}\text{C}$
- Dew point display
- Dedicated key for Min/Max value display
- Flexible backlit and display brightness control
- Real time date and time display
- Real time battery status indication
- User- programmable alarm(visual) limits for Rh and Temperature
- Long battery life(>100 hours of continuous use)
- Designed for spot-checking and field calibration
- Handheld instrument
- Dedicated key for instant/spot data recording\*
- Viewing the data records\*
- Selectable data recording time interval: 1 to 1440 minutes\*
- Stores 16,000 records\*
- USB interface for data download\*
- Delayed/Trigger-start/Time Event/Manual log option\*
- Windows 7, 10 compatible analysis and reporting software\*

## Applications

- Healthcare, sciences
- Food industry
- HVAC/Building management
- Printing / Paper industry
- pharmaceutical industries

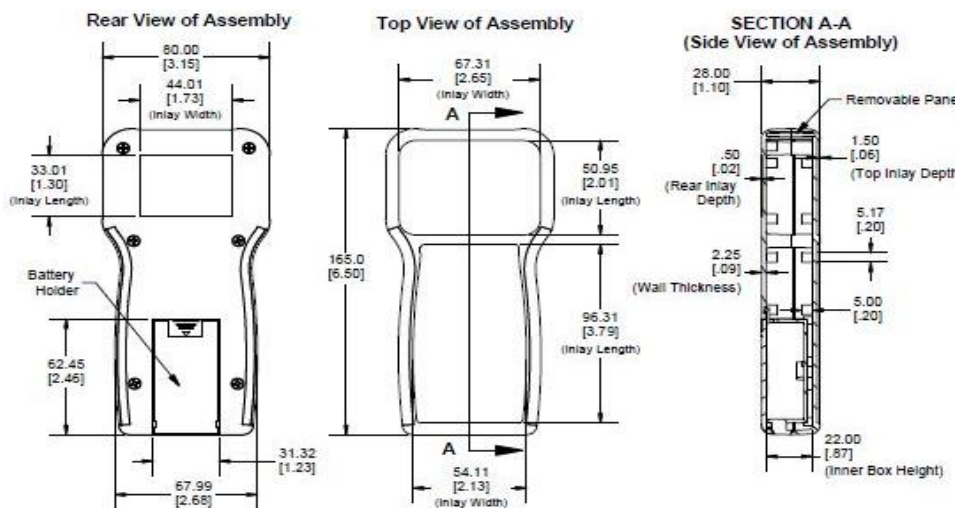
**Note:** - \*\* These features are offered only in RhT75-2-X

# Specifications

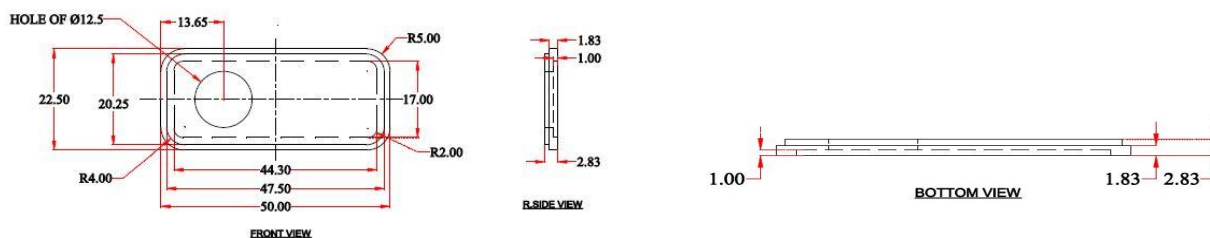
Technical		General	
Model No	RhT75-X-X	Display	Graphical LCD , alarm and low battery indication
Humidity Measurement		Power supply	2x1.5V, AA battery
Range	0-100 %Rh	Battery life time	>100 hours of continuous use (when backlit is OFF)
Accuracy at 23°C	±0.8% Rh	PC interface	Micro USB cable. USB2.0*
Repeatability	0.3% Rh	Data logging capacity	16,000 records*
Long term stability	< 1% Rh / year	Logging time interval	1 min to 1440 minutes*
Response time	Typical 10sec, 63% of a 35 to 80% RH step change (1m/sec air flow at sensor)	Dimensions (L X W X H)	300 X 80 X 30 mm
Temperature measurement		Weight	230grams(approx.)
Range	-10 to 60°C	Environmental	
Accuracy at 23°C	±0.1°C	Storage and transit	-20 to +70 °C / 0 to 100 %RH, non condensing
Repeatability	0.05°C	Operating limits at electronics	-10 to 60 °C: 0 to 100 %RH, non condensing
Long term stability	< 0.1°C / year	Temperature limits at probe	Same as Operating limits at electronics
Response time	Typical 4 sec, 63% of a step change (1m/sec air flow at sensor)	Maximum humidity at probe	Same as Operating limits at electronics
Calculated parameters		Maximum air velocity at probe	20 m/s (3,935 ft /min)
Psychometric calculations	Dew point		
Probe General			
Probe material	Polycarbonate		
Probe dust filter material	Polyethylene		
Housing material	Polycarbonate		
Housing protection grade	IP65		
CE / EMC compatibility	CE conformant 2007/108/EG		
FDA / GAMP conformity	21 CFR Part11 / GAMP5		
Dimensions	135x15 mm		

Ordering Information for RhT75		
RhT75	X	X
Model No.	USB	Future use
RhT75	1 –Memory storage not available	X
	2 – Storage for 16,000 Records & USB downloading	

## Mechanical Drawing for RhT75



## HYGROLOG SENSOR FIXING PLATE



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All specifications are subject to change without notice.  
 Doc. Ref. RhT75/121121/V1.1