

# EXTECH<sup>®</sup> INSTRUMENTS Product DATASHEET

## Digital Psychrometer + InfraRed Thermometer

Humidity, Wet bulb, Dew Point, Air Temperature plus IR for Non-contact Temperature measurements

### Features:

- Triple display with backlighting
  - View Air temp+RH+surface temp
  - View Dew Point+RH+surface temp
  - View Wet Bulb+RH+surface temp
- InfraRed Thermometer with
  - Built-in laser pointer
  - 8:1 distance to target ratio
  - Adjustable Emissivity from 0.3 to 1.0
- Precision humidity capacitance sensor is retractable for protection during transportation and storage
- Calculates T1 (IR Surface Temperature) - DP (Dew Point) differential
- Programmable Auto power off and Low battery indication
- Over-range/under-range alert indicator
- Built-in RS-232 interface for capturing readings on a PC
- RH401 complete with 4 AAA batteries and carrying case
- Optional RH405 kit includes meter, 33% and 75% calibration bottles, RS-232 cable, 4 AAA batteries and carrying case

### Applications:

- Monitor Wet Bulb, Dew Point, Relative Humidity and Temperature in factories, clean rooms, offices, and greenhouses
- Non-contact InfraRed surface temperature measurements in hard to reach areas such as heating and air conditioning duct
- Humidity monitoring in schools, offices and manufacturing or storage areas



RH405 Digital Psychrometer + InfraRed Thermometer Kit includes calibration bottles, RS232 cable, and carrying case.



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Specifications	Range	Max Resolution	Basic Accuracy
Humidity	10 to 90%RH	0.1%RH	±3%RH
InfraRed Temperature	-40 to 932°F (-40 to 500°C)	0.1°	±3%
Air Temperature	-4 to 122°F (-20 to 50°C)	0.1°	±3%
Dew Point	-90.4 to 122°F (-68.0 to 49.9°C)		
Wet Bulb	-6.9 to 122°F (-21.6 to 49.9°C)		
Emissivity	Adjustable 0.3 to 0.99		
Field of View	8:1		
Dimensions/ Weight	6.8x2.7x1.9" (175x70x50mm)/ 4.9oz (140g)		

### Ordering Information:

- RH401** .....Digital Psychrometer + InfraRed Thermometer  
**RH405** .....Digital Psychrometer + InfraRed Thermometer Kit  
**RH401-CAL** .....33% and 75% RH calibration reference  
**407752** .....RS-232 PC cable and software for RH401

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10/05/06 - R1