Humitest System

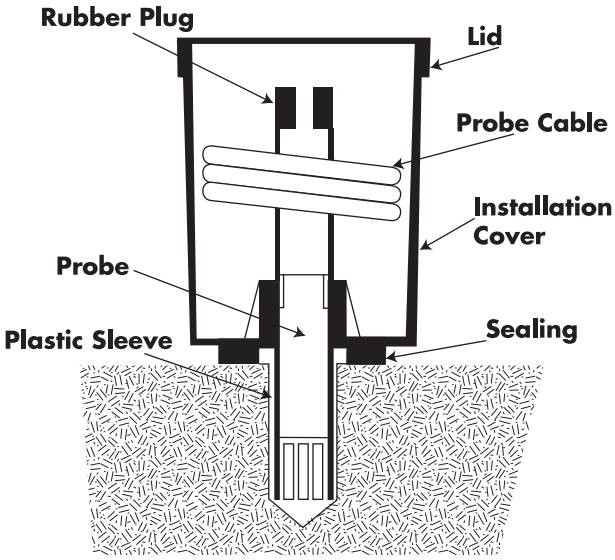
The tailor made solution for measuring bore hole humidity in hardened concrete.

Features and Benefits

- **Ensures Structure is dry before starting next construction phase.**
- **Uniquely designed system to handle concrete bore hole humidity measurements.**
- **Re - usable Probe for improved economics.**
- **Rapid Response Time of Probe.**
- **High accuracy and Long term Stability of Probe.**
- **Conforms to ASTM Standard F-2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs.**

Hunitest System

Technical Specifications



The James Instruments Humitest System allows the concrete practitioner to monitor and ensure that a new structure is dry enough to proceed with the next phase of construction. This is especially critical for concrete structures requiring a coating, carpeting or similar floor or covering treatment. Installing such treatments before the concrete is sufficiently dry will typically cause expensive failures in the covering treatment. The only accurate way to ensure that the concrete is sufficiently dry enough to safely avoid expensive re – work is via a bore hole humidity test system, such as the Humitest System™.

The system works by first boring a hole into the concrete and inserting a plastic tube in the hole. The plastic tube is then plugged and the system is set to stabilize and the humidity to reach equilibrium. The probe is then inserted into the plastic tube, left to stabilize for a short period of time, and then a reading is taken.

The sleeve is recommended to give readings at various depths in the concrete. As concrete moisture distribution is typically very uneven it is recommended to take readings at different depths depending on the structures exposure.

A number of other features have been included with the Humitest system to improve its use. The unit can display relative humidity as well as temperature at the probe in either Fahrenheit or Celsius. It can also store data for later upload.

Specifications

Probe	
Measurement Range	0…100% RH
Accuracy	
0…90%	+/-2%RH
90…100%	+/-3%RH
Long Term Stability (1 Year)	1%RH
Response Time (90% of Reading at 20° C)	15 S
Response Time (Stabilized Hole, full reading)	30min
Temperature Range	-20°C…+60°C
Sensor Diameter	12mm
Cable Length	0.3m
Probe Length	69mm
Housing Material	ABS Plastic
Sensor Protection	Membrane Filter
Bore Hole Diameter	16mm
Measurement Depth	min. 30mm
Meter	
Calculated Quantities	Dewpoint
Temperature	Absolute
Temperature	Wet Bulb
TemperatureResolution	0.1%RH / 0.1°C
Power Supplies	4 AA Batteries
Display	2 line LCD
Approximate Weight	300 g.

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