The James Aquameters

A hand held instrument for fast accurate measurement of moisture content in solid materials.

Features and Benefits

- Direct read-out of moisture content; no charts or tables required.
- Separate modes for concrete, brick, wood and gypsum.
- Measures moisture in most solid materials.
- Specific material calibration available for maximum accuracy.
- No prongs, probes or holes to be drilled.

Typical Applications

- Locate leaking pipes in walls and floors.
- Locate seeping water in basements and masonry tanks.
- Check moisture level of materials before applying coatings or adhesives.
- Curing condition of wood, stucco, and other construction materials.

Technical Specifications

Measuring moisture hidden behind paneling.

Technical

The James Aquameter utilizes the latest electronic technology to measure the quantity of water within its sensing field. Using a high frequency capacitive sensor, a large volume of material — approximately 2" x 3" x 1" (50mm x 75mm x 25mm), is sampled instantaneously. Changes in this electro-magnetic field are directly proportional to the dielectric constant of the material through which it passes. As the dielectric constant of water is almost two orders of magnitude greater than most non-metallic materials, variations in this parameter can be correlated to the moisture content.

After extensive testing of various materials, relationships between changes in the dielectric constant and moisture content have been determined. These relationships have been computed and digitized in the Aquameters, thereby allowing the user the direct read-out of moisture content for concrete, masonry, hard wood, soft wood, gypsum and brick.

For the more advanced user, a model (T-M-70) with more functions is available. Using a simple calibration procedure, the user can set the meter to determine the moisture content of almost any solid material. Also, the Aquameter can automatically average an infinite number of readings to determine the moisture content of large structures.

Sales Numbers & Specifications

Modes of Operation	
T-M-60:	Basic model/program for concrete, masonry, gypsum, brick and most woods
Additional Mode	
T-M-70	Advanced model for above materials as well as special user calibrated mode and averaging function
Size:	1.75" x 2.75" x 4.33" 4.5cm x 7,0cm x 11cm
Weight:	8 oz (226gr)
Resolution:	±0.1%
Accuracy:	±0.2% at constant temp.
Sensing Field Vol:	Approx 4.8 cu in (80cm^3)
Measurement:	Content by wet weight %=wt. of water / wt. of water + wt. of material x 100%
Battery:	9V disposable

NDT JAMES INSTRUMENTS INC.
NON DESTRUCTIVE TESTING SYSTEMS
3727 North Kedzie Avenue,
Chicago, Illinois 60618
1-800-426-6500 (773) 463-6565
FAX (773) 463-0009
e-mail: info@ndtjames.com
http://www.ndtjames.com