



The James Trident T-90 Moisture Meter

A microwave meter for rapid determination of moisture content in sand and other fine and coarse aggregates.

Features and Benefits

- **Fast and easy to use:** Simply insert the prongs into the sand or aggregate.
- **Accurate.**
- **Completely portable.**
- **Easy to read display.**
- **Instantaneous readings.**

The James Trident T-90 Moisture Meter



Computer display of the Trident's actual readings of moisture content within a sand test sample.

Accuracies can achieve +/- 0.2% with user calibrated mode for sands. Accuracies will vary with particle size and material type.

Note: Maximum aggregate particle size is approximately 25 mm in diameter.

Technical

The James Trident represents a break-through in modern moisture measurement technology. By utilizing the latest microwave and microprocessor technology, the Trident can determine the moisture content of sand, gravel, crushed stone and other fine and coarse aggregate. Simply insert the prongs of the probe into the material to be measured and instantaneously the percentage of moisture content is shown on the easy to read display.

The Trident Microwave moisture meter uses a five prong sensor to measure the complex dielectric constant of the material encompassed by the outer four prongs. As the dielectric constant of water is four to eight times greater than most aggregates, changes in water content directly effect the sensor output. An average of five to ten readings is normally taken in order to ensure a valid reading. This output is then converted by the integrated microprocessor and moisture content is displayed directly as a percentage of dry weight.

The unit comes calibrated for both sand and aggregate. It can also be programmed with up to ten different materials by the user. For highest accuracy, the unit should be programmed for the material being tested. Simple to use WIN95/WINNT software is provided for calibrating the unit to the various materials.

Finally, the Trident can store over 150 readings. Storage is complete with the time and date for future reference. Data can be recalled via RS-232 interface to a personal computer running WIN95/WINNT.

Specifications

Moisture Range:	0 - 20% by Dry Weight
Frequency:	50 Mhz
Power:	4 AA Batteries
Display:	4 x 16 Char. Trans - reflective
Data Link:	RS - 232
Weight:	4 lbs. (1.8 kg)

Sales Numbers

T-T-90:	Trident Microwave Moisture Meter
T-T-92:	Trident Microwave Sensor
T-T-93:	Trident Microwave Meter

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