Model DG-9 (Universal Voltage)

Model DG-9 Moisture Meter is designed for semi-solids; powdered, granular or textile materials; and pliable sheets in rolls or stacks.

Key Features

- A range of optional needle electrodes available to solve different applications
- Optional sensitivity modules permit a wide range of moisture measurements
- Rechargeable NiMH batteries eliminates costly battery replacement
- Carrying case, Battery charger and instruction manual are included

Important note for first-time buyers
This product is highly customizable – In order to purchase a complete unit, you must also order at least one DG-9 Module and DG-9 Probe.

Product Description

The Model DG-9 offers flexibility and adaptability for almost any moisture application. This instrument uses digital microcomputer circuitry to provide fast, accurate and reliable non-destructive moisture measurement for many products. The Model DG-9 may be used for comparative testing without calibration or to determine the actual percentage of moisture after calibration. The Model DG-9 will hold 100 different calibration curves. These curves are stored in permanent memory in tables 00 through 99. A fully discharged battery will not cause data in the table to be lost. The DG-9 can test materials with a fairly constant bulk density and a consistent change of radio frequency properties with change in moisture content. These materials include semisolids; powdered, granular, textile materials; pliable sheets in rolls or stacks, chips, chunks or flakes.

Operating on the radio frequency power loss absorption principle, which is a patented feature of Moisture Register Products, the DG-9 projects an RF field into the test area. This RF field extends approximately three inches (7.6 cm) surrounding DG-9's electrode needles.

Materials containing moisture will absorb part of this RF energy current and cause a change in the meter readings. When calibrated to the material being tested, the meter reading is in direct moisture content.

The DG-9 consists of a needle electrode assembly, which connects to a sensitivity module, which is connected to the meter by a three foot (0.9 meter) cable. The molded plastic handle contains a spring loaded switch bar for momentary testing, while the On-Off switch permits a series of tests.

Tests can be made by inserting the needles directly through a sack, or between layers of paper or other stacks of soft material. Greater accuracy is achieved by measuring a large volume of sample.

The Model DG-9 is furnished with the proper sensitivity modules which are pre-selected to cover the desired range of moisture contents for the material being tested. Any of 7 modules can be added as use of the instrument is extended to new material and ranges.

Interchangeable Sensitivity Modules
The use of solid state sensitivity modules gives the DG-9 a broad moisture range capability. The modules permit more sensitivity in low moisture ranges as well as the ability to check high moisture content of up to 60% on some materials. Seven different sensitivity modules are available, each with varying degrees of sensitivity. Beginning with the highest sensitivity (for very low moisture content), the modules available are: 250, 150, 100, 070, 050, 030, and 010. The 010 is the least sensitive module, and in most cases is used in high moisture applications.

Features

- A range of optional needle electrodes available to solve different applications
- Optional sensitivity modules permit a wide range of moisture measurements
- Rechargeable NiMH batteries eliminates costly battery replacement

Additional Information

Process	*Handheld*
Pin Feature	*Pin*
Contact Feature	*Contact*
Measurement Method	*Radio Frequency*
Reading Feature	*Digital*

Related Parts

A8-AF & DG9 Carrying Case