



DSM-2.

Ideal for performing tensile testing and other mechanical tests. This unit has an acquisition rate of 13 readings/second.

The display reads directly in strain units (or displacement in inches or millimeters). An analog output allows connection to chart recorders and data acquisition boards. The meter is provided with connectors to the extensometer, an output cable for the analog output and a power cord for your country. Pricing also includes calibration of an extensometer with the meter. Since the two are calibrated together, they can be used immediately when received.

SPECIFICATIONS

- Full signal conditioning for extensometers.
- Digital display in engineering units, with 6 digits.
- Rate of 13 readings/second.
- Analog output 0-10 VDC (2 to 4 mA optional).
- Accuracy of .005% of reading.
- Optional RS-232 communications.

Contact Epsilon for your special testing requirements.



DSM-Plus, single channel version.

A high accuracy, higher speed meter that allows multiple calibrated ranges. Optionally, the DSM-Plus can be configured with two channels to read force and strain. This is a simple, low cost way to obtain the data for stress-strain plots. The automatic recognition feature allows multiple extensometers to be calibrated individually on one meter.

The DSM-Plus is ideal for customers who own several extensometers. When a configured extensometer is plugged in, the meter automatically recognizes it. It is also possible to calibrate the same extensometer in multiple ranges. For example, it is frequently convenient to calibrate an extensometer to a range of 10% of the full scale measuring range to allow greater sensitivity for tests at small strains.

The dual channel version is very useful for tests which require two strain readings, such as measurement of Poisson's ratio or r-value tests on sheet metal samples. It also is a low cost solution to upgrading older test systems. One channel is used for strain and the other for the force reading from a load cell. The RS232 digital output or the analog outputs make computerized data acquisition simple.

SPECIFICATIONS

- Automatic recognition of extensometers.
- Accuracy: 0.01% of full scale ± 1 digital count
- 6 digit display in engineering units such as percent strain or displacement.
- Analog output with capability of 0 to ± 10 VDC output
- Common mode rejection: 115dB
- Operating temperature range: 0 to 50 °C
- Front panel tare button to zero output at the start of every test.
- 60 readings per second update rate
- Includes power cord, connector for extensometer(s), output cable and calibration with extensometer.
- Input power: 110 VAC, 60 Hz, Optional 220 VAC, 50 Hz.
- Optional second channel allows for second extensometer to be used simultaneously or load and strain to be measured simultaneously for a low cost solution to obtaining stress-strain plots for older machines.

OPTIONS

Second channel for strain or load cell



DSM-Plus rear panel, one channel version.



DSM-Plus front panel, two channel version.



DSM-Plus rear panel, two channel version.



DSM-Plus, two channel version, with 3542 extensometers.

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