Designed for general purpose testing, these conditioners are available with one or two channels, and can be used as full system replacements for older test systems. This provides a 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.

Model DSM-Plus two channel high accuracy strain meter with two Model 3542s

Model DSM-Plus high accuracy digital strain 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 USB, RS232, and analog outputs make computerized data acquisition simple.

SPECIFICATIONS

- Automatic recognition of up to 20 extensometers after initial set-up
- 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

Model DSM-Plus Available Options:
Second channel for strain or load cell