



ASC-1 single channel version.

These conditioners are ideal for testing where no display is needed, or for cyclic and high speed testing. They are available in single channel versions, as well as 2, 3 and 4 channels versions. They provide all the signal conditioning electronics needed for a strain gage based extensometer.

The ASC has adjustable excitation voltage and a high accuracy amplifier to provide a high level DC voltage output. A zero adjustment potentiometer is on the front panel.

The output is ideal for direct connection to data acquisition boards which require a high level DC input voltage. They will also directly connect to chart recorders or test controllers. For computer based controls, it also allows the extensometer data to be acquired by the data acquisition software.

All models include a built in power supply and power cord for your country. A 2.5 m (8 ft) output cable is included to connect to external systems. Calibration with an extensometer (for each channel) is included in the pricing.

SPECIFICATIONS

- Zero adjustment potentiometer(s) on front panel.
- Output adjustable up to 0 to +/-10 VDC.
- Excitation adjustable 4 to 10 VDC.
- Gain range of 2 to 5000.
- Linearity 0.002% typical, 0.005 maximum.
- Filtering: switch selectable, cutoff frequency of 10, 100 or 1000 Hz.
- Output noise 10 Hz to 1 kHz: 200 microvolts.
- Common mode rejection: 140 dB typical, 110 dB minimum.
- Operating temperature range -25 to +70 °C.
- Stability versus temperature: 40 ppm °C.
- Includes power cord, connector for extensometer(s), output cable and calibration with extensometer.
- Input power, either 120 VAC/60Hz or 230 VAC/50 Hz (specify).

OPTIONS

- ASC-1** Single channel signal conditioner
- ASC-2** Two channel signal conditioner
- ASC-3** Three channel signal conditioner
- ASC-4** Four channel signal conditioner

Contact Epsilon for your special testing requirements.



DSC with Model 3542.

These conditioners were designed as an inexpensive solution for static mechanical testing where no digital display is required.

The DSC is a digital signal conditioner with analog output. All calibration is handled by software via an RS232 connection. The sampling rate is well suited for typical tensile tests. They provide all the signal conditioning electronics needed for a strain gage based extensometer. The DSC has an excitation voltage of 5 VDC and a high accuracy amplifier to provide a high level DC voltage output. The unit includes a tare button to zero output at the start of every test and a shunt button for periodic verification of the output.

The output is well suited for direct connection to data acquisition boards which require a high level DC input voltage. It will also connect directly to chart recorders or test controllers. For computer based controls, it allows the extensometer data to be acquired by the data acquisition software.

All models include a power cord for your country. An 8 ft (2.5m) output cable is included to connect to external systems. Calibration with an extensometer is included in the pricing.

SPECIFICATIONS

- Automatic recognition of extensometers.
- Multiple extensometers may be calibrated with one DSC.
- Accuracy: 0.01% of full scale ±1 digital count
- Analog output with capability of 0 to ±10 VDC output
- 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 240 VAC, 50 Hz.

Contact Epsilon for your special testing requirements.