

508-SW SWITCHING AMPLIFIER

Capteura® Multiple Channel Switching Amplifier

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Where multiple channels are required at lower sampling speeds, the new low cost multiple channel signal conditioner returns very high linearity & stability of individual channels. The system eliminates the additional cost of any external A/D converter cards, while offering direct USB interface to a PC or optional Ethernet to PLC controllers. The compact switching configuration is ideal for a large number of industrial process displacement, gap and bore measurements.

- 1-8 displacement channels or 4 gap calibrations stored internally
- Integral 18 bit Analog to Digital Converter
- Compatible with all Capacitec Probes
- New powerful microcontroller with more memory

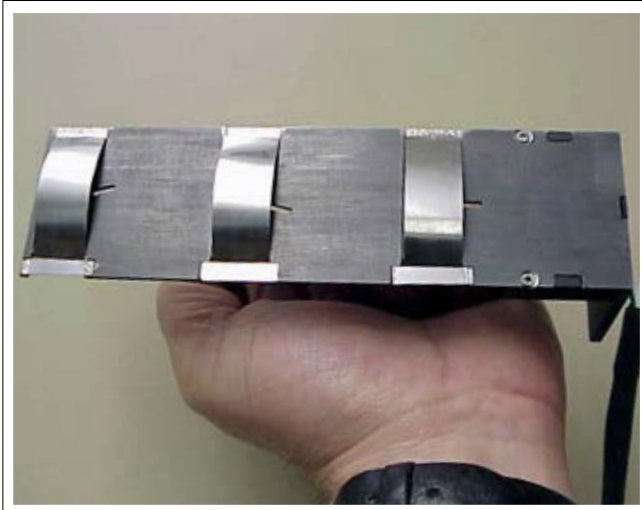


Output view of 3 channel system

- Calibration settings are stored on-board
- Linearity: 0.1% FS
- Switching frequency up to 500 Hz (e.g. 5 channels/100 Hz per channel)
- USB powered (standard)
- Ethernet with external power supply required (5VDC @ 250mA)
- Bargraf compatible
- Output Engineering units - Serial string
- Ethernet IP Software (optional)
- Command Set Software (optional)

System Specifications

The **Capteura 508-SW Switching Amplifier Systems** are configured according to user-specific needs. They can be built in several different configurations of 1 to 8 channels. The one channel option has very high throughput (3.5kHz). The 8 channel option has a throughput of 60Hz.



3 Gap-Spring Contact Sensor Assembly



3 sensor input view with TRW/Souriau connectors

Model 508-SW Amplifier Specifications

Size (with enclosure)	9.5" X 4.25" X 1.25" (241mm X 108mm X 32mm)
Bandwidth	500Hz (e.g. 5 channels/100 Hz per channel)
Linear Range	Typically 2/3 of probe's sensor diameter
Temperature Stability	110 ppm/°C temperature coefficient from 0 to 60°
Linearity	± 0.1% of full scale or better to 2/3 of sensor diameter
ESD	Electrostatic discharge protection of sensor, guard, and electronic ground
Power Consumption	USB or Ethernet < 1.25 watts
Input	Connector options: TRW (3 channel), Souriau (8 channel)
Power Options	AC wall adapter 5VDC or USB power: 5VDC @ 250mA
Extension Cable	10 foot (3.05m) cable length change affects the output by less than 0.2%
Output	Digital only: USB, Ethernet
Output Type	Serial