

# 508-SW SWITCHING AMPLIFIER

Capteura® Multiple Channel Switching Amplifier

## Capteura® 508-SW Switching Amplifier

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

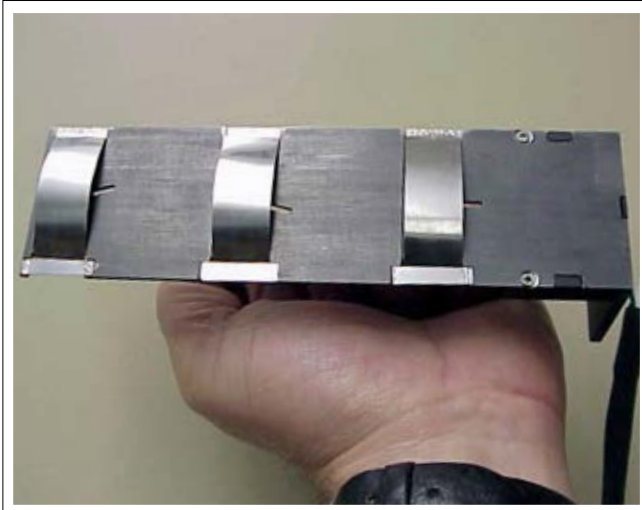


Output view of 3 channel system

- 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

<b>Size (with enclosure)</b>	9.5" X 4.25" X 1.25" (241mm X 108mm X 32mm)
<b>Bandwidth</b>	500Hz (e.g. 5 channels/100 Hz per channel)
<b>Linear Range</b>	Typically 2/3 of probe's sensor diameter
<b>Temperature Stability</b>	110 ppm/°C temperature coefficient from 0 to 60°
<b>Linearity</b>	± 0.1% of full scale or better to 2/3 of sensor diameter
<b>ESD</b>	Electrostatic discharge protection of sensor, guard, and electronic ground
<b>Power Consumption</b>	USB or Ethernet < 1.25 watts
<b>Input</b>	Connector options: TRW (3 channel), Souriau (8 channel)
<b>Power Options</b>	AC wall adapter 5VDC or USB power: 5VDC @ 250mA
<b>Extension Cable</b>	10 foot (3.05m) cable length change affects the output by less than 0.2%, to 32.8 feet (10m)
<b>Output</b>	Digital only: USB, Ethernet
<b>Output Type</b>	Serial