Matelect manufactures the SM-3 for switching between two channels of ACPD data and performing the division of the recorded values automatically. This frees the user from having to attend the experiment and allows temperature normalisation to be performed during long term tests (where it is more likely to prove important to do so).

The SM-3 unit switches between the two ACPD channels a preset time (of variable duration). The switched signal is routed via a standard CGM-5R for processing and then routed back to the SM-3 so that a highly accurate analogue division can be performed. The resultant normalised signal can then be recorded by a chart recorder or a PC via Labview drivers for the SM-3.

**SM-3 FEATURES**

- Can be used as a standalone unit to perform thermal compensation of ACPD measurements.
- Switching between channel A and B is carried out continuously, at rates of 3.2, 8 and 16 seconds, user selectable.
- Both analogue and digital outputs are provided.

The unit is primarily designed to work with the CGM-5R.

**Applications**

- Thermal compensation for use with CGM-5R units