

# Steel Reinforcement Monitoring Box



The CPT monitoring system utilises a series of embedded reference electrodes, placed at specific locations on the structure, to monitor the potential of the reinforcing steel and offer an indication of corrosion activity.

The system can be monitored manually or remotely with the option to download data directly to an office based pc.

This monitoring technology can be applied to bridges, car parks, residential, industrial and marine structures.

### The System Components

1. 16 channel Data logger measurement and control system, 2 M SRAM for data storage, program storage and CPU usage. Eight differential (16 single-ended) analogue inputs, two pulse counters and eight digital I/O ports, complemented by CS I/O and RS-232 ports, a 40-pin peripheral port and Ethernet option.
2. The CS-GSM package consists of an SC932C interface cable and DCE interface, power cable and dual band GSM antenna complete with a Wavecom Fastrack GSM digital transceiver.
3. 12V lead acid power supply with charger circuit and 230V to 18VDC adaptor.
4. White fibre-glass reinforced polyester enclosure with sealing rating IP66, internal dimensions 305 x 254 x 114 mm
5. Manganese dioxide solid state reference electrodes with insulated cable (see attached data sheet)

The system can be set to record data at a range of intervals depending on client requirements, with a default setting of measurement every 1 hour.

Temperature measurement of either the concrete or air will usually occupy one data channel leaving 15 measurement channels.

### Contact Details

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