Everyone needs instruments for measuring electrical parameters.

SURETECH
Multi-channel Current SLP-CS

The SURETECH SLP-CS (Smart Load Processor for Current Sensors) for current measurements using SURETECH-RCS to measure very high currents. The SLP-CS can be used by electrical field personnel who need to measure and capture electrical loads from a variety of sources. The SLP-CS is orientated to manual sampling, semi-permanent or permanent installations, of current in factories, sub-stations and plant. It can be specified for various current sensors such as SURETECH RCS (Rogowski Current Sensor) for high current AC sampling ranging from tens of Amps to tens of thousands Amps, with accuracy of better than 1%. Standard Rogowski coil diameters available: 75, 150 and 300mm. The SLP-CS replaces the many clip-on ammeters required into ONE meter. The high current range is extended, while also facilitating low current measurements. SURETECH CT-PODs for low AC currents, and Hall Effect for DC current sensing can also be specified.

The SLP-CS can be ordered with or without a built-in data logger, and provides the user with a 1Mbyte Data Flash memory. Up to eight groups of samples can be defined eg. A user can assign groups 1, 2 and 3 to RED, WHITE and BLUE incomers; and the rest of the groups (4 to 8) to various feeders in that sub-station. Logging to Data Flash memory then makes post-processing easier to manage, as the group channel number is logged. Data is imported into Excel spreadsheets, and easily manipulated by the user. Field logging is controlled by 3 pushbuttons, with menu based system controlling groups, measurements, RTC (Real Time Clock), memory etc.

General Features:

- ✓ Current sensing is by means of SURETECH sensors such as
  - ✓ Rogowski current sensors for very high currents, both split core and fixed core
  - ✓ 7mm diam split-core CT-Pod for ultra fast installations, requiring NO-BREAK in existing CT wiring, and up to 50Amps using split core GOSS cores
  - ✓ Hall Effect current sensors for DC and AC are also available
- ✓ RS232 data cable, and BNC connectors for Rogowski Current Sensors
- ✓ RS232 interface provides user with easy connection to Windows Hyperterminal for “no-cost” software interface, for import directly into Excel spreadsheets
- ✓ Auxiliary Power Supply options available, and the user should specify which is required:
  - ✓ Either 9V or 18-36V battery, or 90-260Vac auxiliary PSU (user to specify)
- ✓ Transient suppression on inputs and outputs, and galvanic isolation
- ✓ Dimensions: 110mm wide, 140mm high (width depends on number of channels required)

- ✓ Backup to provide support for design, application, installation, and maintenance information

Current processing options (available on enquiry):

- ✓ SLP-CS:
  - ✓ Logging to 1MByte non-volatile Data Flash Memory, as built in data logger (settable log rates)
  - ✓ Rogowski sensor specified (tens of Amps to tens of thousands Amps AC)
  - ✓ Hall Effect for DC current measuring channels
  - ✓ CT-Pod sensor specified, 1, 5, or 25Amps FSD
- ✓ RS232 output is available for logging directly to a PC with one second updates, and also for downloading logged information from Data Flash memory
- ✓ Real Time Clock options
- ✓ DSP sampling to offer harmonic analysis, and true RMS AC, DC and average components

Current sensor options available:

- ✓ SURETECH Rogowski split-core flexible current sensors are available for direct input
- ✓ SURETECH CT-Pod is a three phase, split core Current Transformer that can measure 5A CT secondaries directly without breaking into the protection or metering wiring of a sub-station; the CT-Pod can also measure up to 100A directly. This split-core CT-Pod results in the fastest, and most flexible installation
- ✓ SURETECH Split core GOSS (Grain Oriented Silicon Steel) cores are available for various currents and cable diameters; please specify your needs
- ✓ SURETECH Hall Effect Current sensors are also available for direct input

Enclosures and packaging:

- ✓ Portable, OR panel mount inside the panel, OR flush panel mount is user specified
- ✓ SLP enclosures can be user specified to be either Aluminium, or PVC (useful for portable applications shown below)
- ✓ Carrying cases can be specified to carry the SLP-current as well as the SURETECH sensor specified for portable applications
- ✓ Carrying cases are either Aluminium, which are more bulky but robust, or woven nylon pouches for more compact but less robust; user to specify

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