

Everyone needs instruments for measuring electrical parameters.

SURETECH HHC

The Hand Held Controller for voltage and current sampling

The HHC is used by personnel needing to measure / capture electrical parameters from various sources. The SLP-HHC is oriented to manual sampling, semi-permanent or permanent installations, 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 hundreds of thousands Amps, with accuracy of 1%, and better. SURETECH CT-PODs for low AC currents, and Hall Effect for DC current sensing can also be specified. The HHC integrates multiple sensors into ONE meter, either battery powered or mains.

The SURETECH HHC can be ordered with or without a built-in data logger, and provides the user with a 1Mbyte Data Flash memory. Up to eight channels can be defined. 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
 - ✓ SURETECH Voltage Sensors for 3phase: LV, 6.6kV, 11kV, 22kV, 33kV, 66kV, 132kV
- ✓ Round screw capture connectors for sensors
- ✓ RS232 interface provides user with easy connection to Windows Hyper-terminal 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 replaceable, or re-chargeable, or 18-36V substation battery, or 90-260Vac auxiliary PSU (user to specify)
- ✓ Transient suppression on inputs and outputs, and galvanic isolation
- ✓ Dimensions: 105mm high, 80mm wide, 65mm deep
- ✓ Backup to provide support for design, application, installation, and maintenance information

Current processing options (available on enquiry):

- ✓ Logging to 1MByte non-volatile Data Flash Memory, as built in data logger (settable log rates)
- ✓ 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

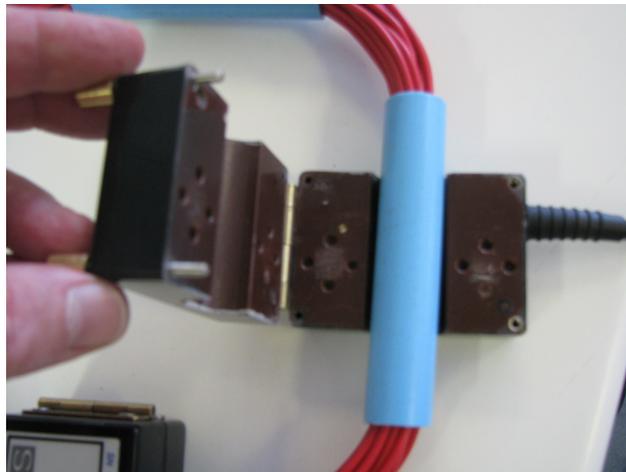
Current sensor options available:

- ✓ 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
- ✓ HHC sensor inputs:
 - ✓ Rogowski Current Sensor standard: 100A, 1kA, 10kA, 100kA
 - ✓ Hall Effect for low AC and low / high DC current measuring channels (10A, 100A, 1kA)
 - ✓ CT-Pod sensor specified, 1, 5, or 25Amps FSD
 - ✓ SURETECH Voltage Sensors for 3phase: LV, 6.6kV, 11kV, 22kV, 33kV, 66kV, 132kV

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 HHC as well as the SURETECH sensor specified for portable applications
- ✓ Carrying cases are either Aluminium (bulky but robust) or woven nylon pouches (more compact but less robust) user to specify
- ✓ Battery: 9V Alkaline changeable, or 9V NiMH rechargeable, or mains, or 24V battery

Shown below left: Hall effect for low currents, below right: Rogowski Current sensors for high currents



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