

SURETECH™

Hall Effect Current Sensor HECS 200A, 500A, 700A, 1kA, 1.5kA DC or AC on various bus bar shapes

General SURETECH HECS xx

Hall Effect Current Sensor measures AC or DC current on power lines, bus bars, switchgear, cables etc. SURETECH HECS can be specified to measure a wide range of currents, from less than an amp up to thousands of amps. The bandwidth characteristics of the SURETECH HECS are superior to normal magnetic core CT technology. SURETECH HECS can provide a range of outputs such as LCD display, RS232 (and if needed 0-5V, 0-10V, +/-10V, 0-20mA, 4-20mA, true rms, instantaneous, relay contacts etc). SURETECH HECS can optionally be fitted with signal processing options for a wide range of smart applications, including fixed controllers.

Technology:

The SURETECH HECSxx uses a proprietary Hall Effect sensing system on open jaws, that cancels nearby magnetic fields. Hall-Effect sensor measures the magnetic field within a GOSS core (Grain Oriented Silicon Steel). Input and output current has galvanic isolation. In the event of over-range or fault conditions, the magnetic core saturates but does not damage the sensor. HECS sensors are hermetically sealed in resin for improved stability and durability. High temperature Tufnol jaws available. Anode / cathode pitch can be customer specified for simultaneous multi-channel sampling. On board memory is used to sample up to 250 measurements before downloading to a computer via USB or RS232. Re-chargeable Lithium-Ion batteries, OR Alkaline 9V PP3 battery.

General Features and applications for HECS xx

- ✓ SURETECH proprietary sensing system cancels nearby magnetic fields
- ✓ Linear measurement circuits for excellent accuracy, calibratable in the field
- ✓ Continuous reading mode with 3second HOLD, for close up readings on anodes & cathodes
- ✓ Peak-HOLD selectable for use on high voltage telescopic link stick so that user can observe reading after removing link stick from line
- ✓ LCD readout, with RS232 or USB
- ✓ Multiple samples (250) stored for later download; enables >10times faster measurements; with comb sensor another 10times faster; with radio download another 10times faster – 1000 times faster sampling!
- ✓ Battery voltage directly reported to user
- ✓ Battery: 9V PP3 Alkaline OR Lithium Ion rechargeable
- ✓ Auto-power down under following conditions: 3minutes of no push button, or user OFF, or battery low
- ✓ Engineering backup to provide you support for design, applications information, installation & calibration, maintenance

User Specified for HECS xx:

<i>Parameter</i>	<i>Options</i>
Current FSD (user can specify others)	100, 250, 400, 500, 700, 800, 1kA, 1.2kA, 1.5kA
Measurement frequencies	+/- DC OR AC 50Hz OR 60Hz
Handle grips:	Handle: Straight OR 45degree Telescopic link-stick with crown adapter Robotic arm
Aperture window for input conductor	4 bus-bar types can be selected and calibrated in field
Jaw material type	Nylon for <55degC, Tufnol for high temp <150degC
Jaw configurations	Single-U OR single-V OR multi-channel (specify pitch)
Outputs:	LCD 2line x 8character alpha-numeric, RS232, USB
Battery	9Volt dc PP3 Alkaline, OR Lithium Ion re-chargeable
Radio interface (ENQUIRE)	RF channel available for networking multiple instruments
Carry case	Aluminium powder coated OR Zip bag

Models of SURETECH HECS xx

Right: HECS-700U

- 700Amps DC
- Rectangular and round busbars (up to four different shapes)
- Various handle shapes: 45degree, straight, or robot arm

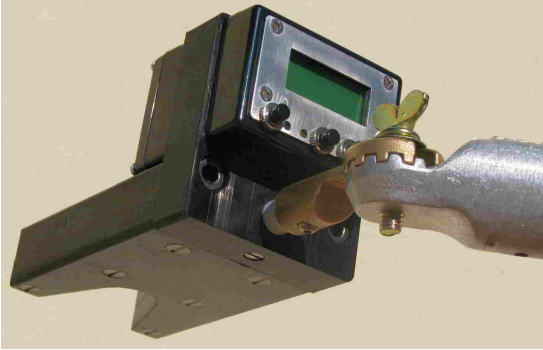
Far Right: HECS1K5U

- +/-1.5kAmps DC
- 1kAmps AC



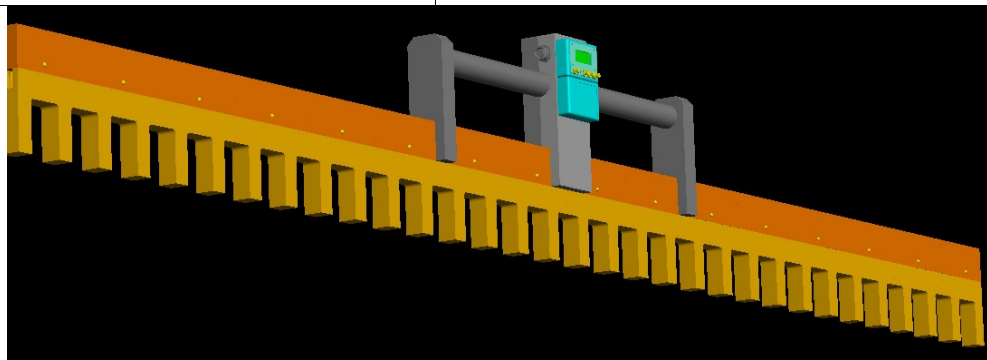
Right: HECS-700/V for AC

- 500Amps AC, or 1kAmps AC
- Brass crown head adapter for telescopic link sticks on power lines
- Peak hold allows time from buzzer beeping, to bring instrument down from line and read it.



Below: HECS-multi-channel

- +/-1.5kAmps DC
- Multiple Anode / Cathode sampling at same time for massive current sampling productivity
- Adjacent channel cancellation



NB SPECIFICATIONS CAN CHANGE WITHOUT PRIOR NOTICE



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