DC Current Sensors • SDCCS-1

The SDCCS-1 DC Current Sensors provide an analog DC Voltage output that is proportional to the DC current passing through their terminals. The sensing element is embedded in a rugged epoxy encapsulation contained in a plastic housing. Operation is bidirectional, so current reversal measurement is possible. They come with a 3 meter (10 ft) long cable, 3 x 22 AWG wires. Available options: /020 (20 Amps at full scale), /100 (100 Amps at full scale).

The sensors are compatible with all Davicom Remote Monitoring and Control Systems. For readings in A_{DC}, enter the following A, B, C and D coefficients values in the desired Davicom Metering Input configuration screen:

Model /020: A= 0, B= 10, C= -25, D= 0
Model /100: A= 0, B= 50, C= -125, D= 0

ELECTRICAL SPECIFICATIONS	
Input Current:	0 to 100 DC Amperes depending on model
Supply Voltage & Current:	5 VDC (±10%), less than 14 mA
Output Voltage:	0.5 – 4.5 VDC (0A = 2.5 VDC)
Sensor Resistance:	0.25 milliohm
Accuracy:	±1% of full scale at 25°C
Isolation voltage:	3 kV RMS minimum
Surge Rating:	900 amps for 1 second pulse, 1% maximum duty cycle for repetitive pulses.
Operating temp. range:	-40°C to +80°C (-40°F to +176°F)
Wiring:	3m (10 ft) cable, 3 x 20 AWG White = +5VDC supply Black = Common (ground) Green = DC Output

MECHANICAL SPECIFICATIONS	
Overall dimensions:	65 x 89 x 38 mm (2.55” x 3.5” x 1.5”) (W x D x H)
Weight:	~ 200g (0.43 lbs)
Current terminals:	1/4-20 Aluminium studs (nuts and lock washers included)
Mounting holes (2):	4.83mm (0.19”) dia.

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