

## MODELS CS-20 & CS-50 PRECISION SHUNTS

- *HIGHLY STABLE*
- *<0.01 % ACCURACY*
- *IMMUNE FROM CONNECTION ERRORS*
- *LOW TEMPERATURE COEFFICIENTS*
- *DC AND AC USE*
- *RUGGED*



The CS series precision current shunts are designed for demanding measurement applications. These shunts feature long term stability and low temperature coefficients. Although designed for laboratory use, they are rugged enough to be installed in environments subject to wide temperature variations and vibration or shock.

The CS-20 and CS-50 have close ac/dc conformance. The ac/dc difference is less than 0.02 % at 20 kHz.

The temperature coefficient of resistance is less than 5 ppm / °C. Connection errors, common to other shunts, are minimized by the internal bus structure.

Connection is via high quality, gold plated binding posts, which accept bare wire, banana plugs and spades. The freely rotating lower part of the barrel prevents damage to wires.

Standard models are listed, but other amp/volt combinations are available. This housing style is recommended for power ( $I^2R$ ) up to 25 watts.

All shunts are supplied with ISO 17025 accredited, NIST traceable calibration at 25, 50, 75 & 100 % rated current.

For the highest precision applications, a 100 ohm RTD temperature option, with full temperature characterization, is available.

CS-20 & CS-50 Precision Shunts				
Model	Amps	Ohms	Output	Accuracy
CS-20	20	0.05	1.0 V	0.01 %
CS-50	50	0.01	0.5 V	0.01 %
For special values, use the below example:				
CS-15-1	15	1 V		0.02%
Physical: 25 x 15 x 5 cm, 3 kG (10 x 6 x 2" 6 #) Stated accuracy includes full current range, 18-30 °C operating range, and 12 months typical stability. All shunts carry a 2 year warrantee.				

Ohm-Labs also manufactures low resistance standards and our innovative temperature stabilized Multiple Current Shunt, model MCS, for <0.1 amp through 300 amp measurements.

