

CT-100 Precision Current Source Module

Introducing the CT-100 Precision Current Source Module: Representing the next generation of future-forward cryogenic measurement products from CryoTechnics!

Unparalleled Accuracy and Stability

The CT-100 boasts a remarkable precision of $\pm 0.01\%$. This outstanding level of accuracy surpasses that of the competition, which typically claim an accuracy of $\pm 0.05\%$. With the CT-100, you can trust that your measurements are precise, allowing you to make critical decisions with confidence.

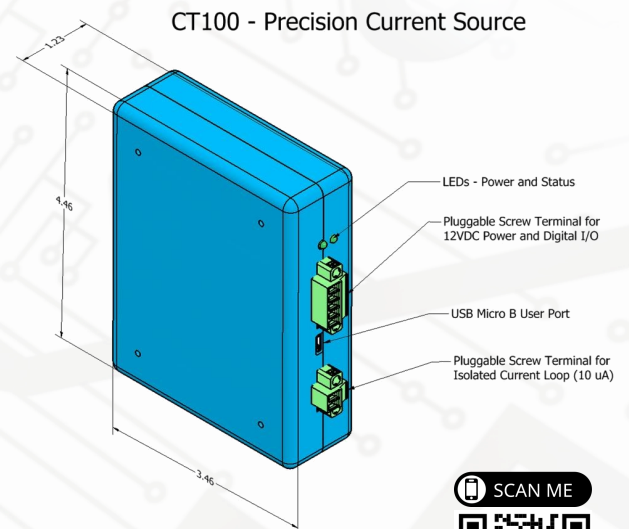
Broad Sensor Compatibility

The CT-100 is designed to operate effortlessly with a wide range of commercially available cryogenic sensors. RTDs can be utilized effectively with the CT-100 thanks to its selectable current reversal feature for eliminating thermal EMF errors.

Simplified Integration

Designed with ease of use in mind, the CT-100 integrates seamlessly into PLC DAQs and OEM platforms. Equipped with pluggable connectors for 12 VDC power supply and current loop outputs, the CT-100 streamlines the integration process, allowing for quick and hassle-free installation. For total invisibility in OEM packages, the CT-100 is available as a PCB daughter board.

Specifications	
Compatible Sensor Types	Silicon Diode, GaAlAs diode, Ruthenium Oxide RTD, Cernox® RTD
Current, Fixed	$\pm 10\mu\text{A} \pm 0.01\%$
Current, Adjustable	$\pm 40\mu\text{A}$, programmable resolution 1.25 nA
Current Reversal	0.5 Hz to 20 Hz, free run mode On-demand with remote command
Output isolation	Optically Isolated
Compliance Voltage	4 V
Max Load	400 k Ω
Remote Interface	USB Type Micro-B, ESD protected
Input	12 VDC
Dimensions	4.5 in. (H) X 3.5 in. (D) X 1.2 in. (W), 0.5 lb
Mounting Option	DIN rail compatible
Connectors	Screw type, pluggable terminal block





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