Cryogenic Temperature Controller Monitor



Our Solution for Cryogenic Instrumantation



Excerpt from the ZSP Company Temperature controller Catalog Product Section Model: CTCM-N

Edition 2019

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Cryogenic Temperature Controller Monitor

Features:

Excitation current reversal eliminates thermal EMF errors for RTD sensors
Thermocouple Cold Junction Compensation
Measures Negative Thermocouple Voltages
Auto Short-Circuit Detection
3 24-bit ADCs
50Hz/60Hz noise Rejection
15ppm/°C Temperature Coefficient

Specification:

Power Input:	220 V AC
Number of Cryogenic Channels:	
Number of High Temperature Channels:	1 Input
Computer Interface:	USB
Graphical touchscreen display:	LCD(7 inch IPS)
Control loops:	1 PID Feedback Control
4 Analog outputs:	
Heater Power:	100 W (at 50V)
Input Sensor types:	diode, RTD, and thermocouple
RAM:	4GB

Applications:

- Cryogen-Free systems
- Superconducting Magnets
- Ultra Low Temperature Research
- Materials Research
- Quantum Technology Research
- Aerospace Simulation

Cryogenic Temperature Controller Monitor

CTCM-N Cryogenic Temperature Controller Monitor is a high performance instrment that can monitor and control temperatures with high resolution. The CTCM-N offers three temperature inputs for cryogenic applications that can read RTDs, thermistors, and diodes. Each temperature input channel has its own 24-bit ADC with eleven input ranges, and is equipped with its own independent excitation current source. One temperature inputs for high temperature applications that can read all types of thermocouples.

CTCM-N rear panel:



- 1 Sensor input connectors
- 2 relays
- 3 Analog output (4-20 mA)
- 4 USB interface

- 5 GND connector
- 6 Heater output
- 7 Heater fuse
- 8 Power input assembly

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In many applications, the unparalleled feature set of the CTCM-N allows you to replace several instruments with one, saving time, money and valuable laboratory space. Delivering more feedback, tighter control, and faster cycle times, the CTCM-N keeps up with increasingly complex temperature measurement and control applications. It is the ideal solution for general purpose to advanced laboratory applications. Put the CTCM-N temperature controller to use in your lab and let it take control of your measurement environment.

ZSP is a manufacturer of cryogenic equipments for both laboratory and industrial process and cryotronics device for monitoring and control. Our mission is to provide the cryogenic industry with high quality, innovative, and technologically superior instrumentation.

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