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NTC-4-1-7M
NTC SIMULATOR

OVERVIEW

The NTC Simulator Board is a board used to simulate NTC resistors temperature sensing features. This board contains 4 isolated channels that can be controlled or adjusted by software via CAN. A single board can be used or several in series according to the The current for each channel can be measured with the software.

KEY FEATURES

- 4 independent channels in total.
- Extendable number of channels by adding more boards
- Each channel has adjusted resistance value from 0 Ω to 8.1 MΩ at a resolution of 1 Ω.
- The current of each channel is in the range 0-100 mA.
- Integrated current measurement.
- Controllable by CAN.

USAGE EXAMPLES

Mainly used to simulate NTC temperature sensors. For example: If you need to test your BMS (battery management system), the NTC simulator board offers a software configurable ready to use solution.

DIMENSION

L*W*H = 248mm*175mm*28mm

OPERATING TEMPERATURE

-20 ˚C ~ +60 ˚C

POWER REQUIREMENT

DC Power Supply:
24 VDC, 1 A

Working Voltage Range:
9 V – 36 V (Default 24 V)

NTC DETAILED SPECIFICATIONS:

Resistance	Val ue	Unit
Range	0 to 8.1 M	Ω
Resolution	1	Ω

Current Measurement	Val ue	Unit
Range	0 to 100	mA
Resolution	12	bit
Precision	1	A m

ENVIRONMENTAL

The Cells Simulation module is intended for indoor use only but may be used outdoors if installed in a suitable enclosure. Refer to the manual for more information about meeting these specifications.

Operating temperature	**-40°C--+55°C**
Storage temperature	**-40°C--+85°C**
Ingress protection (IP code)	**None**
Operating humidity	**10-90% RH non condensing**
Storage humidity	**5-95% RH non condensing**

SUPPORT AND SERVICES

Calibration

ART logics measurement hardware is calibrated to ensure measurement accuracy and verify that the device meets its published specifications. To ensure the ongoing accuracy of the measurement hardware, ART logics offers basic or detailed recalibration service.

ART logics
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