

Temperature Logger



OVERVIEW

The Temperature Logger can running and test without computer. All data can be saved in sdcard. User can configure their tests before start. All configuration will be downloaded into the board and running off line. User can log both voltage and CAN messages with the same clock.

The Temperature Logger offers 20 channels of temperature input measurement, with a precision of 24 bits and a sample rate up to 1Hz.

The user has the option to use the Ethernet TCP, USB-C or RS-232 as a communication interface to set the configuration of the channels and get the measurement data. In addition, The SCU10 is able to run in a standalone mode with the built in SD Card.

DIMENSION

L*W*H = 228mm*248mm*56mm

KEY FEATURES

- 20 channels differential temperature input.
- 1Hz Data sample rate.
- Support type K, type J, RTC, N, R, S, T, E, B RTD PT100.
- Ethernet TCP, USB-C and RS-232 communication interfaces.
- Built in SD Card to store the configurations and data acquisitions.
- Software defined and external trigger signals support.
- Ready to use C# and LabVIEW APIs.

Power Requirement

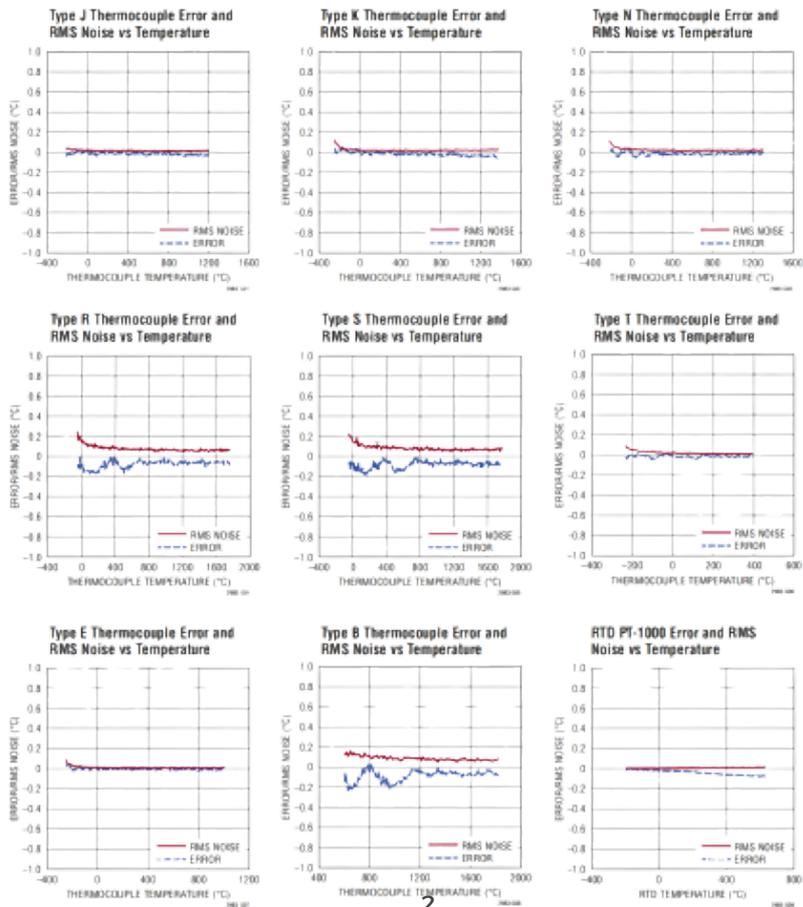
DC power supply:
24 VDC, 90mA

DETAILED SPECIFICATIONS:

Temperature Input	Value
Number of Channels	20
Resolution	24 bits
Integral Nonlinearity	VIN(CM) = 1.25V (Note 15)
Offset Error	0.5uV
Positive Full-Scale Error	<100 ppm of Vref
Negative Full-Scale Error	<100 ppm of Vref

Communication Interface	Parameters
Ethernet	TCP/IP 10/100 Mbps link Programmable Source, Gateway and Mask IPs
USB-C	USB 2.0 5V power supply
RS-232	Programmable baud rate up to 921600 bps

APPLICATION



ENVIRONMENTAL

The Temperature Logger 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 humidity

10-90% RH non condensing

Storage humidity

5-95% RH non condensing

SUPPORT AND SERVICES

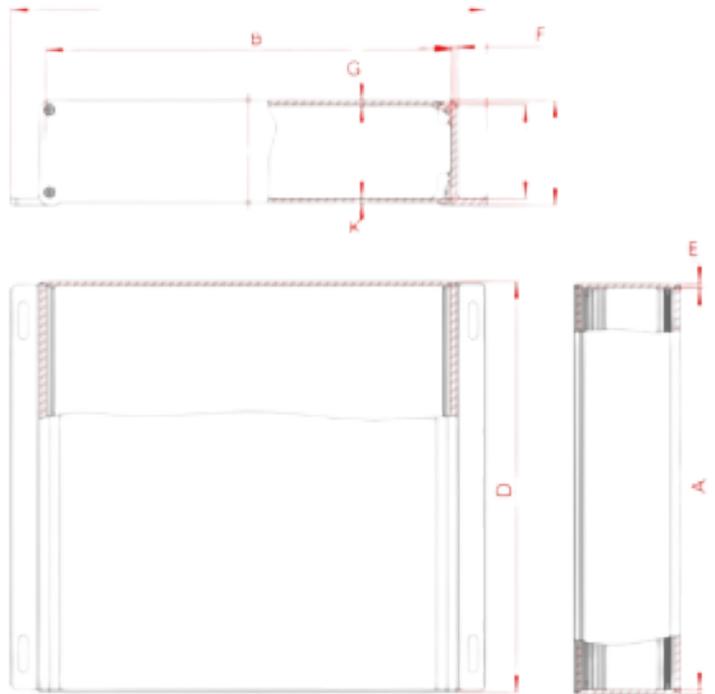
Calibration

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.

DIMENSION

L*W*H = 228mm*248mm*56mm

L*W*H = 228mm*269.3mm*56mm (with assembly ear)



ART Logics (Shanghai) Testing Equipment CO., Ltd
艾驰电子检测设备技术（上海）有限公司

Tel: 021-61075469

Room 105, No. 258, Chengjiaqiao Road, Shanghai, P.R. China



www.art-logics.com
support@art-logics.com