

SCU5-34DVCFT 34CH SMART LOGGER



OVERVIEW

The SCU5 Fast Sampling Product offers 34 channels of differential real time voltage measurement, with a precision of 16 bits and a sample rate up to 100 kHz. The SCU5 supports a wide range of programmable configuration parameters for each voltage input channel, for example the data rate, the total period of acquisition, the trigger option, etc. Three operation modes 1. Single sampling mode Manual sampling test, you can sample a period for multi-channels. 2. Long term sampling mode Long term sampling test, you can sample without a stop timing until click stop. 3. Trigger sampling mode For trigger test to capture special signal, you can connect a digital control to smart logger then it will start sampling as trigger. 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 = 485mm*354mm*44mm.

OPERATING TEMPERATURE

10 °C ~ 35 °C

KEY FEATURES

- 34 channels differential voltage input measurement. 100 kHz Data sample rate.
- Selectable voltage input range $\pm 10V$
- 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.
- External clock reference for synchronization.

POWER REQUIREMENT

DC power supply:
24 VDC, 90mA

DETAILED SPECIFICATIONS:

| Analog Input | Value |
|---------------------------|-----------------------------------|
| Number of Channels | 34 |
| Resolution | 16 bits Up to |
| Sampling Speed | 100ksps |
| Accuracy | ± 0.5% |
| Input Resistance | 220 kΩ (Differential) |
| Input Range (Normal/ Max) | ±10 V |
| Synchronization | 100 kHz clock input |
| Trigger | Rising/Falling edge digital input |

| Frequency and Counter Input | 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 |

ENVIRONMENTAL

The SCU5 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 | 10~35 |
| Storage temperature | -40~+85 |
| Ingress protection (IP code) | None |
| Operating humidity | 10-90% RH non condensing |
| Storage humidity | 5-95% RH non condensing |

DIMENSION

L*W*H = 485mm*354mm*44mm.

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.



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