



Micro-I-Daq 32

Miniature Voltage Scanner

- **32 channel miniature pressure voltage scanner module**
- **Complete with IEEE 1588 PTP V2.**
- **Up to 1.25Khz per channel measurement frequency.**
- **Better than 0.06% FS system accuracy.**
- **Complete with calibration interface so all channels can be calibrated through one port.**
- **Output over Ethernet (100Mbit TCP / UDP) and CAN.**
- **Embedded web server for configuration and calibration.**
- **Wide thermal operating range (+5 to 100° C)**



The Chell Micro-I-Daq is a compact, high accuracy digital scanner that acquires 32 voltage inputs and outputs them on an Ethernet or CAN interface. The Micro-I-Daq complements the range of Microdaq pressure acquisition systems to give a complete in-model acquisition system.

The acquisition parameters within the Micro-I-Daq can be configured by using its embedded web server which gives intuitive and complete control.

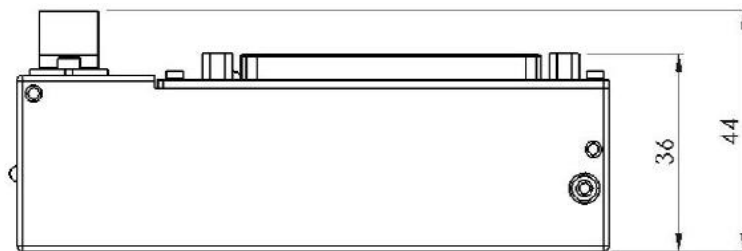
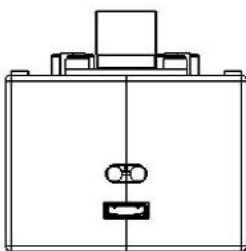
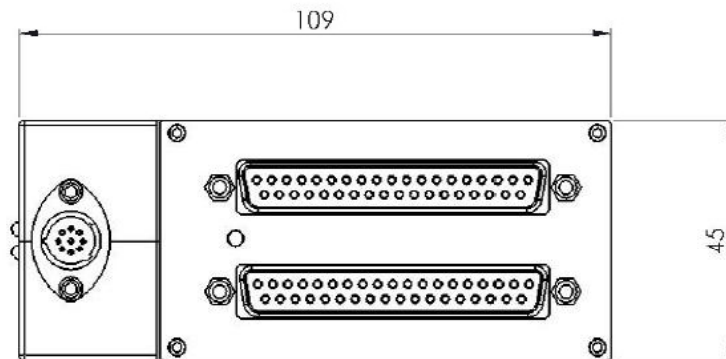
The Micro-I-Daq also features a calibration interface which allows all the channels to be calibrated through a single port. When the calibration plug is inserted into the Micro-I-Daq, the status LED will change to red and the ports will be commoned. This allows all channels to be quickly and easily calibrated.

The Micro-I-Daq features IEEE 1588 PTPV2 time stamping as standard in addition to the ability to synchronise the measurements by using a hardware trigger input. This 5v TTL pulsed input triggers the acquisition on its rising edge allowing the user to establish an absolute time for the measurement.



Micro-I-Daq Specifications

	Micro-I-Daq 32
High speed data output.	CAN and Ethernet (TCP/IP and UDP)
System accuracy	+/- 0.06% FS
System resolution	16 Bit
Voltage ranges (volts DC)	-5 to +5 -2.5 to +2.5 -1 to +1 0 to 10
Maximum voltage input	20 volts DC
Input impedance	Greater than 10 MOhm
Thermal stability	0.0002% FC/DegC
Dimensions (width x depth x height in mm excluding connectors.)	109 x 45 x 44
Maximum acquisition Speed (measurements / channel / second).	1250
Input supply	8-25 VDC at 4VA
Mating electrical connector (digital interface)	ASDD606-09SN-HE
Mating electrical connector (measurement ports)	37 way D type plug (male)
System timing	IEEE1588 PTP V2 and Hardware trigger (5v TTL)
Operating temperature range.	+5 to+80°C
Maximum relative humidity	95% at 50°C (non-condensing)
Ethernet specification	Auto-negotiating 100Mbit TCP/IP or UDP (user configurable)
CAN specification	2.0 B



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