

T-Daq Temperature Acquisition

The Chell T-daq is an intelligent thermocouple temperature scanner capable of acquiring the outputs of K and E type thermocouples. It can be used in place of a PSI pressure scanner or in conjunction with the Chell CANdaq or QUADdaq products to provide a complete data acquisition system.

- *Acquires K and E type thermocouples*
- *Accurate to +/- 0.5 DegC*
- *Compatible with any intelligent pressure scanner acquisition system.**
- *On board EPROM contains calibration coefficients.*
- *Can be in-field reconfigured for different thermocouple types.*
- *Up to 1250Hz per channel acquisition speed.*
- *Can be used with other Chell products as part of a miniature acquisition system.*



Chell T-Daq Temperature Scanners.

The Chell T-Daq is an intelligent, compact and high accuracy temperature scanner that multiplexes 8 thermocouple inputs into a single output. The electrical interface is exactly the same as the Pressure Systems DTC pressure scanners. The I-Daq can therefore be purchased with the Chell CANdaq or QUADdaq to provide a complete acquisition system.

Alternatively, the I-Daq can be substituted for a pressure scanner in an existing DTC system to provide additional temperature measurements. When used with the QUADdaq, the T-Daq can be used in conjunction with the pressure scanners and the Chell I-Daq to provide a multi-input acquisition system.

The T-Daq features an internal EEPROM that contains the configuration of the T-Daq and its calibration coefficients. When connected to the acquisition system, the T-Daq's coefficients will be uploaded so that an engineering unit temperature output can be generated.

Re-calibration is a simple matter of re-programming the EPROM and can be done off-line.

The T-Daq can be calibrated for a number of different thermocouple types. The type used can then be selected with links in the mating Omega connector.



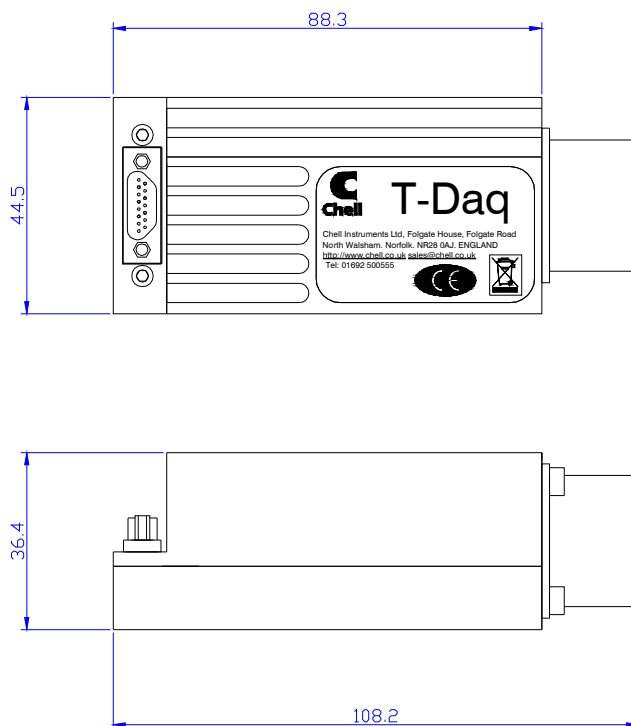
PSI Pressure Scanners



Chell CANdaq and I-daq

*Compatible with existing DTC systems

Dimensions



Chell T-daq	
Channels	8
Acquisition speed	up to 20KHz
Connectors	Omega MTC-24
Thermcouple types	K and E
Temperatue compensation range	0-50°C
K type	-270 to 1372°C
E Type	-270 to 1000°C
Maximum error when used with CANdaq / QUADdaq	+/- 0.5°C for temperatures from 0-500°C. +/- 1°C typical for rest of range
Maximum error when used with DTC acquisition system	+/- 1°C for temperatures from 0-500°C. +/- 2°C typical for rest of range
Dimensions (L x W x H in mm)	108.2 x 44.2 x 36.4
Weight	165g



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