



T-Daq

Miniature Temperature Scanner

Chell Instruments

- **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.**

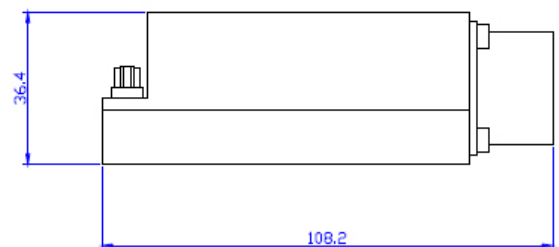
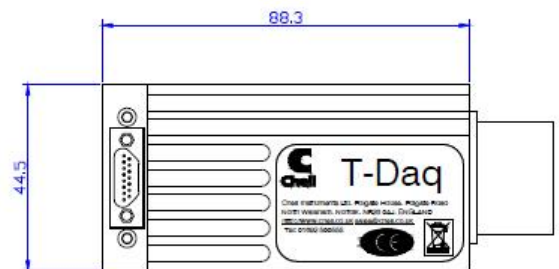


The Chell T-daq is an intelligent thermocouple temperature scanner capable of acquiring the outputs of K and E type thermocouples. It can be used in place of a PSI pressure scanner or in conjunction with them to provide a complete data acquisition system.

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.

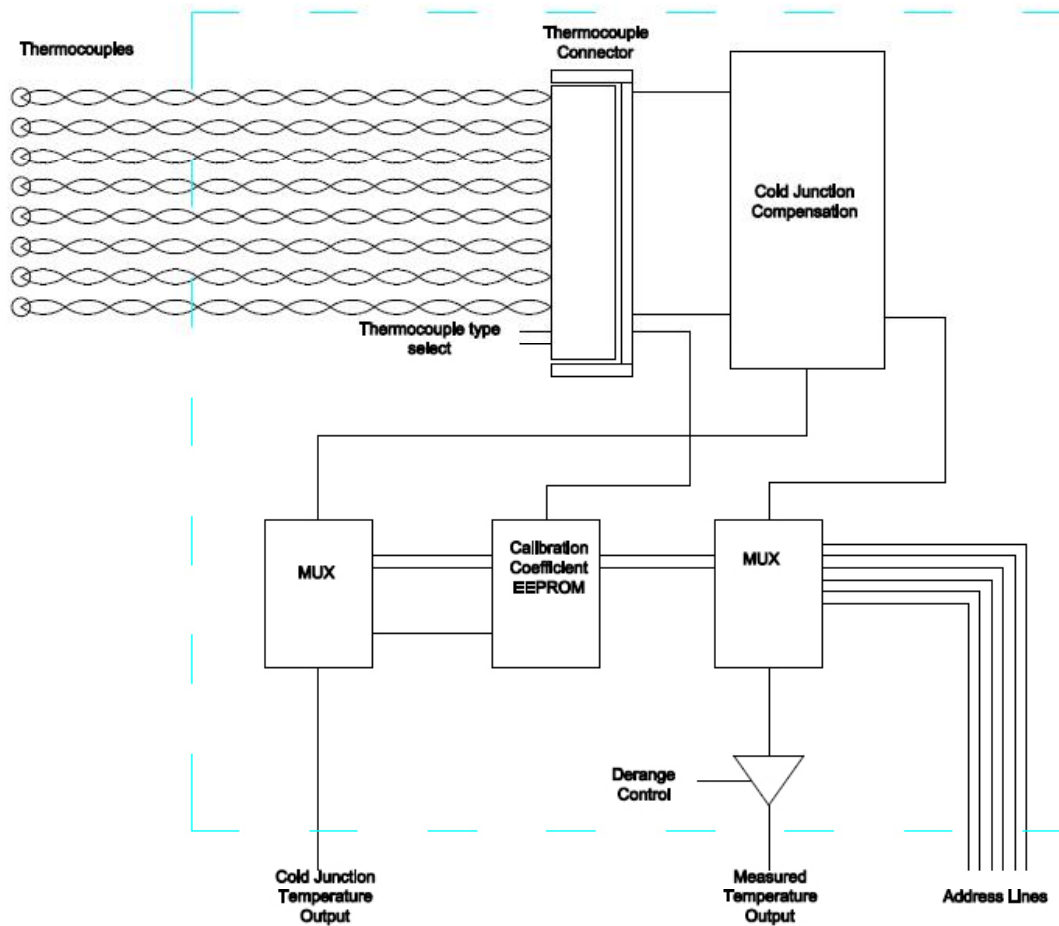
The T-Daq can therefore be substituted for a pressure scanner in an existing DTC system to provide additional temperature measurements.

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.



T-Daq Specifications	
Channels	8
Acquisition speed	up to 20KHz
Thermocouple connector	Omega MTC-24
Thermocouple types	K and E
Temperature compensation range	+/- 0.2% FS
Maximum error (when used with CANdaq / Microdaq)	+/- 0.5°C
Maximum error (when used with DTC acquisition system)	+/- 1.0°C
Dimensions (width x depth x height in mm)	108.2 x 44.2 x 36.4
Weight (without scanner)	165g

T-Daq Block Diagram



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