

Thermocouple Data Acquisition (DAQ) System

Signal conditioning, storage, and streaming over 100 channels of thermocouple measurement data has never been more accurate or straightforward than with Gantner Instruments'

A104TCK DAQ System



Temperature measurement with up to 104 channels in Rackmount or Desktop Form Factors

The A104TCK thermocouple measurement system is a flexible high-precision solution that acquires and stores measurement data independently from a computer. All data can be logged to a USB drive and streamed in parallel to multiple devices for visualization and additional data logging if needed.

This system can be rack-mounted (19", 3HU) or packaged into a desktop form factor and comes pre-configured for a quick-and-easy first operation. It comes with an external AC/DC power supply, a USB drive for data storage, and GI.bench software license.

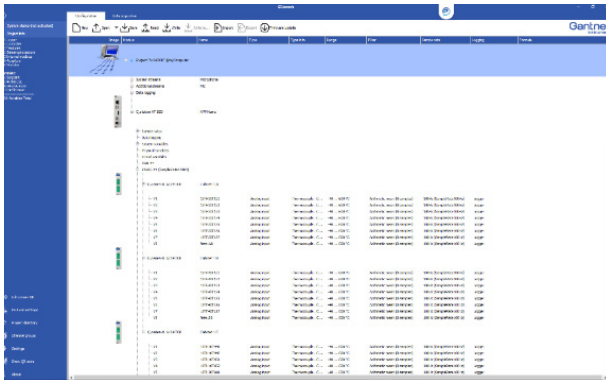
Included are the Q.raxx X station B test controller and up to 13 Q.raxx XL A104TCK measurement modules. Each module provides up to 8 channels of thermocouple (Type K) measurements, with sample rates up to 100 Hz per channel and all channels synchronized with jitter less than 2µS.

The A104TCK DAQ system is extendable beyond 104 channels with additional I/O modules for thermocouple measurements or other types, e.g., accelerometer, strain gage, voltage, and current measurements.

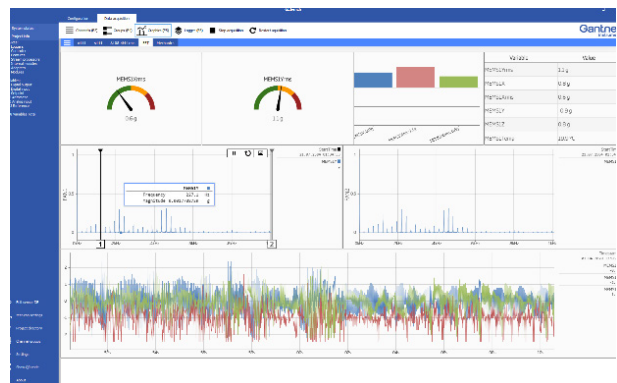
The A104TCK system comes with these unique features:

- 104 analog inputs for Thermocouples Type K (NiCr/Ni) measurements
- Inputs with Type K Mini Sockets (IEC green, other thermocouple types and color codes on request)
- High-accuracy digitization: 24-bit ADC, 100Hz sample rate per channel, 50Hz/60Hz mains rejection
- Analog input accuracy and linearity error of 0.01% typical full-scale
- Software selectable signal conditioning: linearization, filtering, averaging, scaling, min/max, RMS, arithmetic, and alarms
- Open thermocouple detection (broken wire) with indication by LED on the front of modules
- 3-way galvanic isolation: 100 VDC channel-to-channel, and 500VDC channel-to-supply, and -bank

All I/O channels and up to 20 independent data loggers are configurable for the A104TCK system with [GI.bench](#). GI.bench is a state-of-the-art data acquisition environment that combines system setup, configuration, as well as logging and monitoring of multiple data streams in one desktop application.



Multiscreen data visualization is simple to set up with GI.bench's dashboard designer. Easily share dashboards with team members across multiple devices in parallel with the use of web browsers.



For more technical details regarding the A104TCK DAQ system, please refer to the product datasheets for the [Q.raxx XL A104TCK](#) analog input module and the [Q.raxx X station B](#) test controller.

Order Information

A104TCK Rack Mount



Order code: 636427 Price: \$ 27,695

A104TCK Desktop



Order code: 636528 Price: \$ 28,215