AMETEK® PROGRAMMABLE POWER

VTI Instruments

Are You Satisfied With Your Existing DAQ System?

Are you satisfied with the accuracy, sampling rate, and signal integrity of your existing data-acquisition system? A system based on a scanning DMM can have many shortcomings. It can be slow, more difficult to setup, and lack the performance you need. The AMETEK VTI Instruments EX1401 16-channel isolated thermocouple and voltage instrument is a better choice.

	EX1401	Scanning DMM
The Basics		
Channels	16 independent channels, multiple EX1401 instruments can be used in parallel	16 or 20 channels/module, three modules may be installed in one mainframe*
Speed	20-kS/s/channel sample rate independent of the number of channels	60-250 Sa/s*
Resolution	24 bits	22 bits (6.5 Digit DMM)
Thermcouple Accuracy	0.2 Degree C	1.5 Degree C
Sampling	All channels sampled simultaneously	Multiplexed
Switch Life	(Infinite), no switching involved	100 million (111 Hours continuous)

Varies depending on selected modules.

Transducer Support		
CJC	Independent temperature sensor on each channel	One temperature sensor per module (one sensor per 16 channels)*

Cold Junction accuracy 0.8 Deg C

Wiring and Cabling Consideration		
Transducer Lead Requirements	Can be located close to or on top of device under test, keeping transducer leads short	May be difficult to locate bulky mainframe near device under test, requiring long transducer leads
Transducer Connection	Easy-to-use mini TC connectors on front of instrument	Screw terminal block that slides into the chassis
Power Requirements	Main, DC or PoE+ support to eliminate the need for separate power wires	Main Power (100-220V AC) only
IEEE 1588	Full IEEE 1588 support to eliminate the need for dedicated trigger and clock cables for synchronizing multiple instruments	Designed to operate as a single unit, does support external triggering but no synchronization over time

The **EX1401** offers many top-of-the-line features and benefits while keeping operating costs low. Now is the time to reduce your operating expenses by switching from your scanning-DMM-based system to one based on the **AMETEK VTI Instruments EX1401**.