

EdgeQ INTELLIGENT MACHINE TOOL MONITORING MODULES



EdgeQ-T

8CH Thermal Monitoring and Compensation DAQ



EdgeQ-V

4CH Dynamic Signal Edge-Computing DAQ



Feature

- 8-channel simultaneous measurements with 4-wire PT100
- Real-time computing and compensation for thermal deviation with an edge computer
- Communication with PLC and controller through digital I/O and RJ45 ports
- 10 sets of temperature alarms and the storage of temperature data
- C++/C API for customized software development

- 4-channel simultaneous analysis
- Smart edge computer system for independent computation and relay protection
- Alarm data and routing data are auto-saved and transmitted by Ethernet
- Overall analysis with standards of ISO 10816 and ISO 17243
- 4 channel voltage or current output based on velocity or acceleration overall values
- C++/C API for customized software development

Specification

EdgeQ-T

Sensor Input	Input Type/ channels	RTD PT100/8CH (terminals)	
	Sampling rate	2 Hz	Resolution: 0.1 °C
DI/O	Channel	32 sets (78PIN D-Sub port)	
	Input Range	0~24 V	
	Output Current	0.1 A, 24 VDC	PNC, Initial Condition: 0V
	Output response	<10ms	
Hardware	Ethernet ports	RJ45 x 2 pcs	10M/100M Auto-Negotiation
	Power	DC+24 V (14W)	Operation Temp.: -10°~60°C
	Dimensions/ Weight	H108 x W104 x D47 mm / 0.7kilograms	DIN Rail

Specification

EdgeQ-V

Sensor Input	Input Channels	4 (Terminals)	4-channel Synchronization
	Input Range	±5V (±10V Optional)	Input Resistance:1 MΩ
	Coupling	AC / DC / IEPE	IEPE 4 mA / 20 V ±1 V
	Sampling rate	102.4 kS/s	
Tachometer	Input Channels	1 (Terminals)	±20 V
	Speed Range	600,000 rpm	
DI/O	Input Channels	8 (37PIN D-Sub port)	
	Input Range	0 ~ 24 V	Trigger level: 3.3 LVTTTL 、3.3 LVCMOS
	Output Range	8 sets of normal relays ; 1 set of high-speed relay (37PIN D-Sub port)	0.1 A, 24 VDC, Normal Close
Overall output	Output Channels	8 (25PIN D-Sub port)	Resolution: 16 bits
	Output Type	4 ~ 20 mA or 0 ~ 10 V	Frequency: 20 Hz
Hardware	Ethernet ports	RJ45 x 2 pcs	10M/100M Auto-Negotiation
	Power	DC +24 V (8 W)	Operation Temp.: -10° ~ 60 °C
	Dimensions/ Weight	H150 x W108 x D65 mm / 1.2kilograms	DIN Rail



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