SVM B TSC12-ISO Specifications

TSC12-ISO

Measuring device for the acquisition of 12 thermocouples

- 12 galvanically isolated inputs
- Sampling rate up to 100Hz
- One 24bit AD converter per channel
- Each channel individually configurable
- Data transmission via USB, CAN, LAN or RS232
- Including software for configuration and logging
- Thermocouple types K, T, J, B, E, N, R, S (opt. mV)



Description

The temperature loggers of the TSC series are suitable for simultaneous monitoring of twelve thermocouple temperatures with high requirements regarding accuracy. Thermocouple connection types can be selected individually according to customer specifications, whereby all channels are equipped with the same sensor types.

Optional universal copper sockets can be selected for optimal flexibility, where each channel can be configured individually.

Data transmission is via USB as standard.

The TSC12-ISO series has 12 galvanically isolated inputs, making it possible to measure with thermocouples attached to electrically conductive materials.

The conversion of the analog voltages is done by high precision 24bit AD converters with a sampling rate of up to 100Hz.

All common types (K, T, J, B, E, N, R, S) are supported. Depending on the type, temperatures from -270°C to 1820°C can be processed and monitored.

Measurements in the mV range are possible as well.

All TSC12 temperature scanners are optionally available with Ethernet (LAN), RS232 or CAN interface. When transmitting data via a CAN bus, several CAN devices can be cascaded so that test scenarios with a very high number of temperature measuring points can be implemented.





Technical Specifications

Available Thermocouple Sockets					
Тур	min		max	Unit	
K	-200		1372	°C	
J	-210		1200	°C	
Ν	-200		1300	°C	
E	-200		1000	°C	
Т	-200		400	°C	
R	-50		1768	°C	
S	-50		1768	°C	
В	95		1798	°C	
V*	-140		140	mV	
Optiona	al: White copper sockets for	all types (K, J	, N, E, T, R, S, B, V*, W*	·)	
Accura	cy and Sample Rates	1			
Accuracy		+/- 0.	+/- 0.5K (with copper sockets 0.5% FS)		
Sample rate per channel		1-100	1-100Hz		
Resolution (internal)		24-bi	24-bit		
Power	Supply				
TSC12		via U	via USB		
TSC12-LAN/-CAN		8-24	8-24V, 0.5A		
Enviror	nmental Conditions				
Temperature		5°C	5°C50°C		
Humidity		095	095%, non-condensing		
Dimens	sions				
Housing		130 x	130 x 55 x 170 mm (B x H x T)		
Driver	and Software				
Virtual (COM-Port-Driver				
Configu	uration software				
LabVIE	W-example program as sou	irce code			
Suppor	rted Operating Systems				
Window	vs 7, 8, 10, 11,Linux				
Options					
All TSC systems can optionally be equipped with CAN bus, LAN or RS232					