Ask about Traceable Calibration

Taishio Temperature Controller

Taishio

Model TS 501 is the universal input controller for Thermocouples, Pt 100 and process signals. It is a dual output display unit with a full PID/Autotune and control output of relay, SSR or current contact of 4-20mA. TS501 offers the most economical and affordable Universal Input controller in the market.

SPECIFICATIONS

Power supply		100 – 240 VAC 50/60Hz
Allowable operation voltage		90 to 110% of rated voltage
Power consumption		Approx. 6VA
Display method		7Segment LED display (Processing value (PV): Red, Setting value (SV): Green)
Input sensor		Thermocouple: K(CA), J(IC), R(PR), E(CR), T(CC), S(PP), N(NN), W(TT)(Tolerance of line resistance is max . 100 RTD: DIN Pt100 , JIS Pt100 , 3 wires type (Tolerance of line resistance is max. 5 per a wire) Voltage: 1 – 5VDC, 0 – 10VDC, Current: 4 – 20mADC
Control method		ON/OFF Control/ Hysteresis: 1 to 100 C adjustable) P, PI, PD, PIDF, PIDS
Control output		Relay contact output: 250VAC 3A 1c
Sub output		EVENT1 output: Relay output 250VAC 1A
Display accuracy		0.3% based on F.S or 3 C Max.
Setting type		Setting by front push buttons
Hysteresis Adjustable		1 to 100 (0.1 to 100.0 C) at ON/OFF control
Proportional band (P)		0 to 100%
Integral time (I)		0 to 3600 sec.
Derivative time (D)		0 to 3600 sec.
Control Time (T)		1 to 120 sec.
Sampling time		0.5 sec.
LBA setting time		1 to 999 sec.
RAMP setting time		Ramp up, Ramp down at 1 to 99 minute
Dielectric strength		2000VAC for 50/60Hz for 1 minute
Vibration		0.5mm amplitude at frequency of 10 to 55Hz in each of X,Y,Z directions for 2 hours
Relay life cycle	Mechanical Electrical	Min.100,000 operations at 250VAC 3A (resistive load)
Insulation resistance		Min. 100M ohm (at 5 00VDC)
Noise strength		2kV R Phase & S Phase
Memory retention		10 years
Ambient temperature		-10 to 50 C (at non-freezing status)
Storage temperature		-20 to 60 C (at non-freezing status)
Ambient humidity		35 to 85% RH
Weight Approx.		250g
Approval		CE

MODEL	DESCRIPTION
TS501	Universal Input Temperature Controller