THERMOCOUPLE DIN RAIL TRANSMITTER

ZTT-62/GD (SEM1605/TC)

- COST EFFECTIVE THERMOCOUPLE TRANSMITTER
- THERMOCOUPLE TYPES K J E N T R S L U B C G
- (4 to 20) mA TWO WIRE OUTPUT
- SIMPLE CONFIGURATION VIA USB PORT
- CALIBRATE AGAINST LIVE INPUT FUNCTION



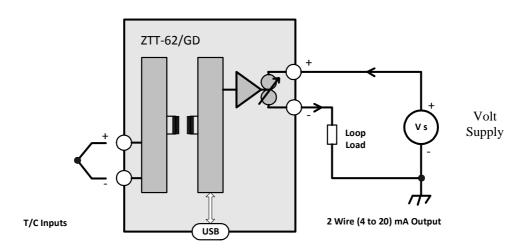
> INTRODUCTION

The ZTT-62/GD s a DIN rail mounted temperature transmitter from Status Instruments. It has been designed to accept most common thermocouple sensor inputs and provide the user with a standard two wire (4 to 20) mA output signal. Galvanic isolation is provided between input and output and all temperature ranges are linear to temperature.

Designed for ease of use, our latest USB interface is fitted for quick and easy configuration. Just connect a standard USB cable between the ZTT-62/GD and your PC. Our free configuration software, will guide you through any changes you wish to make. To further help save time, the ZTT-62/GD does not need to be wired to a power supply during the configuration process, it is powered via the USB interface from your PC. The following parameters are configurable:-

INPUT TYPE	LOW RANGE	HIGH RANGE	UNITS	BURNOUT	PUSH BUTTON
THERMOCOUPLES K, J, E, N, T, R, S, L, U, B, C, G	Input @ 4 mA	Input @ 20 mA	°F, °C	Up/Scale Down/Scale	Range or Off

The ZTT-62/GD is also provided with user push button ranging, allowing adjustments at both 4 mA and 20 mA for a live value. The user adjust function can be locked during configuration if not required. The state LED indicates out of range input during normal operation, during user adjust it is also used to indicate the stage of adjustment.



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> SPECIFICATIONS @ 20 °C

ELECTRICAL SENSOR INPUTS		
Input Type	Range	Accuracy / Stability
K	(-200 to 1370) °C	±0.1 % of full scale ± 0.5 °C
J	(-100 to 1200) °C	(plus sensor Error)
N	(-200 to 1300) °C	
E	(-200 to 1000) °C	
Т	(-200 to 400) °C	±0.2 % of full scale ± 0.5 °C
		(plus sensor Error)
R	(0 to 1760) °C	±0.1 % of full scale ± 0.5 °C
S	(0 to 1760) °C	(plus sensor Error) over range (800
		to 1760) °C
L	(-100 to 600) °C	±0.1 % of full scale ± 0.5 °C
U	(0 to 600) °C	(plus sensor Error)
В	(-200 to 1300) °C	
С	(0 to 2300) °C	
D	(0 to 2300) °C	
G		
Thermal Stability	(-20 to 50) °C	(± 0.15°C / °C at zero) + (± 0.1°C/ °C
		at span)
Thermal Stability	(-30 to -20)°C and (50 to 70)°C	Typically as above

AMBIENT SENSOR (Cold Junction)			
Туре	Range	Accuracy/Stability	
Thermistor 10K Beta 3380	(-40 to 85) °C	±0.5 °C ±0.05 °C/°C	
OUTPUT TWO WIRE (4 to 20) mA LOOP			
Range	(4 to 20) mA		
Range Extremes	(3.8 to 21.5) mA		
Accuracy	(mA output / 2000) or 5 uA		
	(Whichever is the greater)		
Supply Voltage	(12 to 30) V DC		
Loop Effect	± 0.2 uA / V		
Thermal Stability	± 2 uA/ °C		
Max Load	[(Vsupply-12)/20] K Ohms		
	(Example 600 Ohms @ 24 V)		
USB USER INTERFACE			
Type\options\function	Description	Notes	
USB 2.0	Micro B		
Baud Rate	19.2 Kbaud		
	Select Sensor Type	TC Type	
Sensor Configuration	Trim Sensor Offset	± 10 °C (± 18 °F)	
	Preset sensor value (Diagnostics)	110 0 (110 1)	
	Set Range		
Loop	Active Range		
	Set Burnout		
	Preset output loop current (Diagnostics)		
Live data	Read Sensor Temperature		
	Percentage output		
	Read Loop Current		
	Read cold junction		

STATE LED	
Туре	Red LED
Action	If mA output < -0.1% or > 100.1 % LED ON
AMBIENT	
Ambient	-30 to 70 °C

ADJUST Buttons		
Off	Locked	
Active Range	Range 4mA and 20 mA points against live input	
MECHANICAL		
Connection	Screw terminals	
Enclosure	DIN RAIL mounted	
Weight	Approx. 60 g	
APPROVALS		
EMC	EN BS 61326 Industrial emissions	

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GENERAL	
Isolation	Flash test 250V DC working 48V DC
Update Response Times	0.5 Second update 1 second response
Warm up time	1 minute
Start-up time	8 seconds
Protection	Reverse connection
Enclosure	Device must be installed in an enclosure offering >IP65 Protection
AMBIENT	
Ambient	-30 to 70 °C
Storage	-40 to 85 °C

