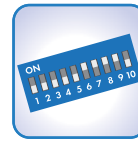




Configuration via:



DIP switch



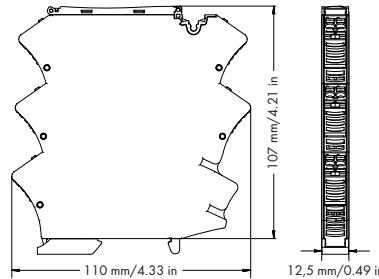
Interface configuration software



Interface configuration app



Configuration display



1.1	TC+	INPUT SENSOR	DO	DO	4.1
1.2	TC-			GND	4.2
2.1	11	RELAY	POWER	Us+	5.1
2.2	12			GND	5.2
3.1	11	JUMPER POWER	JUMPER POWER	Us+	6.1
3.2	14			GND	6.2

**Short description:**

WAGO's Thermocouple Threshold Value Switch for TC sensors monitors and reports signals of up to two switching thresholds.

**Features:**

- Both digital signal output and relay with changeover contact react to configured measuring range limits (switching ON/OFF delay and threshold value switch function configurable with up to two threshold values).
- Adjustable software filter
- Input/Output response simulation via configuration display
- Safe 3-way isolation with 4 kV test voltage acc. to EN 61140

Description	Item No.	Pack. Unit
<b>JUMPFLEX®</b> Transducer, for DIN 35 rail TC Threshold Value Switch	<b>2857-534</b>	1
<b>Technical Data</b>		
<b>General specifications:</b>		
Supply voltage $U_s$	24 VDC	
Supply voltage range	16.8 V ... 31.2 V (-30 % ... +30 %)	
Current consumption at 24 VDC	≤ 30 mA (+ $I_{DO}$ )	
Measurement error	± 1 K	
Temperature coefficient	≤ 0.01 %/K	
<b>Environmental requirements:</b>		
Ambient operating temperature	-40 °C ... +70 °C	
Storage temperature	-40 °C ... +85 °C	
<b>Safety and protection:</b>		
Test voltage (input/output/supply)	4 kV AC, 50 Hz, 1 min.	
<b>Connection and type of mounting:</b>		
Wire connection	CAGE CLAMP® S (picoMAX® 5.0)	
Cross sections	solid/fine-stranded: 0.2 ... 2.5 mm <sup>2</sup> / AWG 24 ... 12	
Strip length	9 ... 10 mm / 0.35 ... 0.39 in	
<b>Dimensions and weight:</b>		
Dimensions (mm) W x H x L	12.5 x 107 x 110	
Weight	Height from upper-edge of DIN 35 rail 87 g	
<b>Standards and approvals:</b>		
Conformity marking	CE	
Standards/Specifications	DIN EN 61010-1:2010; DIN EN 60664-1:2008; Safe isolation acc. to DIN EN 61140:2002; IEC 61000-6-2; IEC 61000-6-4	
<b>Accessories:</b>	For accessories, see Full Line Catalog INTERFACE ELECTRONIC 2012/2013	

Technical Data	
<b>Configuration:</b>	
Configuration	DIP switch, interface configuration software, interface configuration app, configuration display
<b>Input:</b>	
Input signal	Thermocouples
Sensor types	Thermocouple's type J, K, E, R, N, S, T, B, S
Temperature range	Type J: -150 °C ... +1200 °C Type K: -150 °C ... +1350 °C
Cold junction compensation	On/Off (Default: On)
Cold junction error	3 K (type 2 K)
<b>Output:</b>	
<b>Output – Digital:</b>	
Max. switching voltage	Supply voltage applied -0.3 V
Max. continuous current $I_{DO}$	100 mA (no internal restriction)
Number of switching thresholds	1 or 2
Configurable rise and fall delay time	0 ... 10 s (via DIP switch); 0 ... 60 s (expanded)
<b>Output – Relay:</b>	
Contact type	1 changeover contact (1 u)
Contact material	AgNi (gold-plated)
Max. switching voltage	250 VAC
Max. continuous current (terminal blocks in a row)	6 A (up to 60 °C), 3 A (60 °C ... 70 °C)
Dielectric strength open contact (AC, 1 min)	1 kV <sub>ms</sub>
Pull-in/drop-out/bounce time typ.	8 ms / 4 ms / 8 ms
Number of switching thresholds	1 or 2
Configurable rise and fall delay time	0 ... 10 s (via DIP switch); 0 ... 60 s (expanded)

# DIP Switch Adjustability

● = ON

2857-534

## DIP Switch S1

Sensor Type Thermocouple					Cold Junction Compensation	Hysteresis		Rise/Fall Delay Time Relay/Digital Output (DO)					
1	2	3	4	Type	5	6	T / K	7	8	9	t / s	10	Not assigned
				J	ON		3				0		
●				K	OFF	●	5	●			1		
	●			E					●		2		
●	●			R				●	●		3		
			●	N						●	4		
●		●		S				●		●	5		
	●	●		T					●	●	8		
●	●	●		B				●	●	●	10		
			●	C									

## DIP Switch S2

Lower Value					Upper Value															
1	2	3	4	5	Temperature / °C					6	7	8	9	10	Temperature / °C					
					0											1000				
●					OFF					●						OFF				
	●				-200						●					-200				
●	●				-150						●	●				-150				
			●		-100								●			-100				
●		●			-50						●		●			-50				
	●	●			50							●	●			50				
●	●	●			100						●	●	●			100				
			●		150									●		150				
●			●		200						●			●		200				
	●		●		250							●		●		250				
●	●		●		300						●	●		●		300				
		●	●		350								●	●		350				
●		●	●		400						●		●	●		400				
	●	●	●		450							●	●	●		450				
●	●	●	●		500						●	●	●	●		500				
				●	550										●	550				
●				●	600						●				●	600				
	●			●	650							●			●	650				
●	●			●	700						●	●			●	700				
		●		●	750								●		●	750				
●		●		●	800						●		●		●	800				
	●	●		●	850							●	●		●	850				
●	●	●		●	900						●	●	●		●	900				
			●	●	950									●	●	950				
●			●	●	1000						●			●	●	1000				
	●		●	●	1050							●		●	●	1050				
●	●		●	●	1100						●	●		●	●	1100				
		●	●	●	1150								●	●	●	1150				
●		●	●	●	1200						●		●	●	●	1200				
	●	●	●	●	1300							●	●	●	●	1300				
●	●	●	●	●	1400						●	●	●	●	●	1400				

## Default Settings

Cold Junction Compensation	ON
Sensor Type	Thermocouple of type J
Lower Value	0 °C
Upper Value	1,000 °C
Hysteresis	3 K
Rise/Fall Delay Time Relay/Digital Output (DO)	0 s