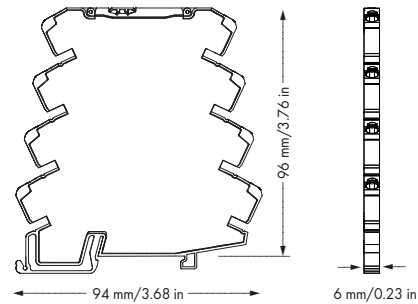
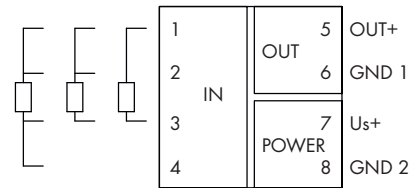
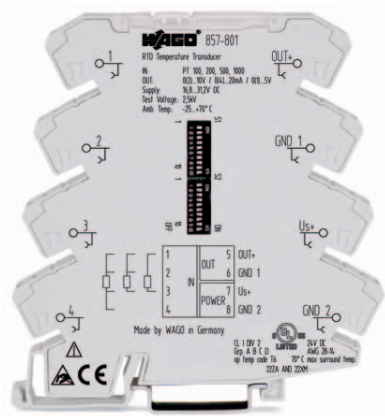


JUMPFLEX® Transducers

Temperature transducer for Pt100, Pt200, Pt500 and Pt1000 * as well as resistors 0 ... 1 kΩ; 0 ... 4.5 kΩ

**Short description:**

The 857-801 Temperature Transducer is suitable for the connection of Pt100, Pt200, Pt500 and Pt1000 sensors in 2-, 3- and 4-conductor connection technology. On the input side, 0 - 1 kΩ or 0 - 4.5 kΩ resistance values can be measured. On the output side, the Pt100 temperature transducer converts the temperature signal into an analog standard signal. The following signals are available: 0 - 20mA, 4 - 20mA, 0 - 10V, 2 - 10V, 0 - 5V, 1 - 5V, 0 - 10mA and 2 - 10mA. The device has a 3-way isolation with a 2.5kV test voltage. The devices can be configured both via DIP switches that are accessible from the side of the housing and using a FDT/DTM software. The software offers additional setting options such as additional types of sensors at the input or inversion of the analog output. Measurement range switching is calibrated.

The device is supplied with 24VDC, which can be commoned using lateral push-in type jumper bars in a quick and cost effective way. A green LED on the front panel indicates normal operation. The temperature transducer meets the requirements for safe isolation of input, output and supply circuits with 2.5kV test voltage according to EN 61140.

Description	Item No.	Pack. Unit
Temperature transducer for Pt100, Pt200, Pt500 und Pt1000 * as well as resistors 0 ... 1 kΩ; 0 ... 4.5 kΩ	857-801	1
Accessories		
Configuration software	- 759-370 FDT Frame Application - DTM (Device Tool Manager) Download: see www.wago.com	
WAGO USB Service Cable	750-923	
General accessories	see pages 222 - 223	
Approvals		
Shipbuilding	Ⓢ (pending)	
Ⓢ-Ⓢ ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
Conformity marking	CE	
General Specifications		
Dimensions (mm) W x H x L	6 x 96 x 94 Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP®S	
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12	
Stripped lengths	9 ... 10 mm / 0.37 in	

Technical Data	
Configuration	DIP switch or via software
Input signal	PT sensors and resistors
Output signal	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0 ... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA
Load impedance	≤ 600 Ω (Out = mA) ≥ 2 kΩ (Out = V)
Step response	180 ms (360 ms at 3-wire)
Voltage supply V _N	24 V DC
Supply voltage range	16.8 V ... 31.2 V
Current input at 24 V DC	< 40 mA
Sensor types	Pt100, Pt200, Pt500, Pt1000 *
Sensor connection	2-wire, 3-wire, 4-wire (switchable)
Temperature range	-200 °C ... +850 °C
Resistor input	0 ... 1 kΩ , 0 ... 4.5 kΩ
Transmission error	≤ 0.1 % at max. measuring span
Transmission error of set measuring span	((10 K / set measuring span [K]) + 0.1) %
Temperature coefficient	0.02 % /K
Min. measuring span	50 K (50 Ω) (configurable)
Test voltage	
(input/output/supply)	2.5 kV AC, 50 Hz, 1 min
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
(* Setting of other types of sensors as well as output signal inversion using the configuration software)	

