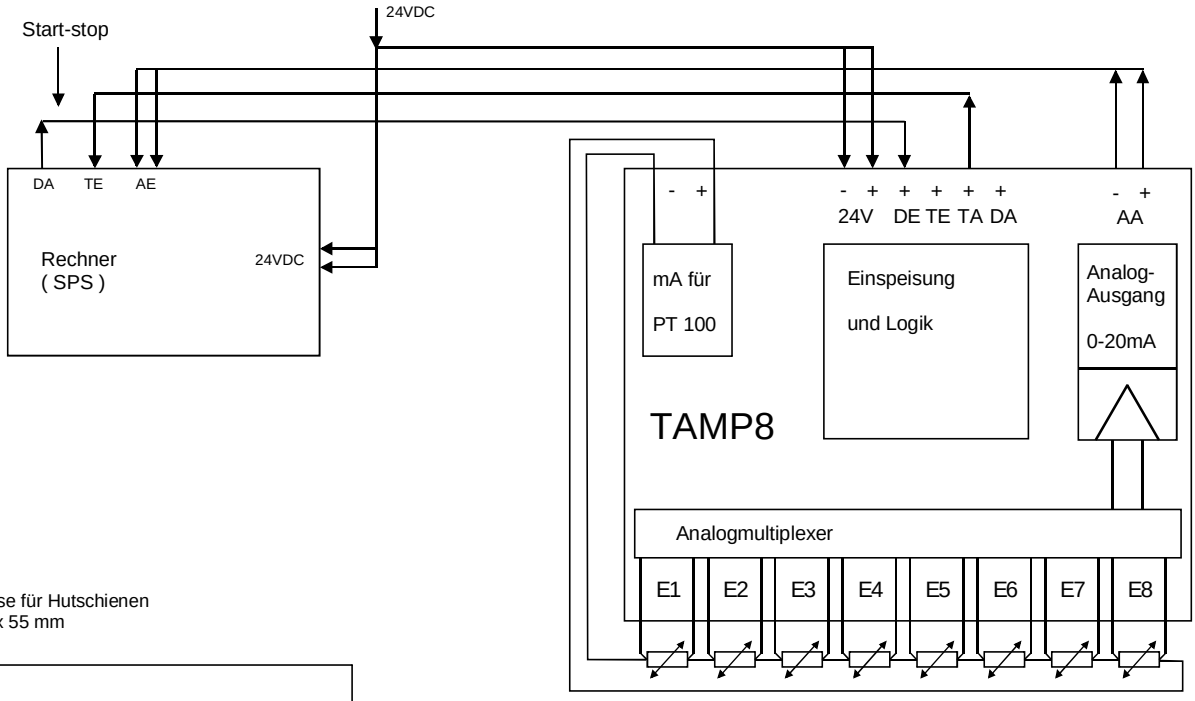
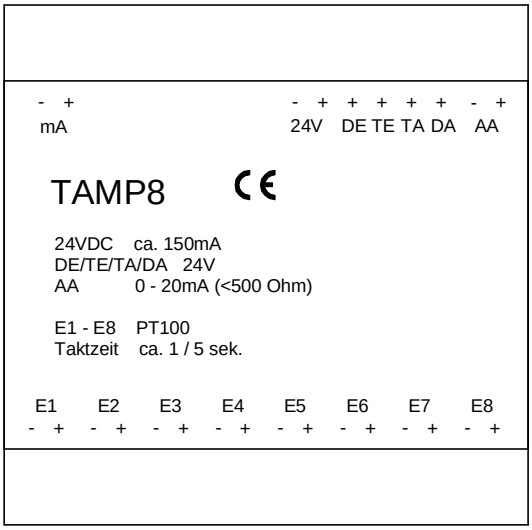
Temperature Sensor Multiplexer TAMP8

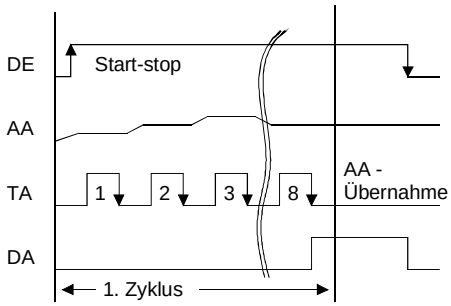
Wiring diagram



8 x PT 100

Aufschnapp-Gehäuse für Hutschienen
B x H x T 93 x 94 x 55 mm





Temperature sensor multiplexer TAMP8

Description

At the temperature multiplexer TAMP8 up to 8 PT 100 sensors can be connected, operating as 4-wire-sensors with 2.5 mA constant current.
These 8 inputs are switched through a configurable clock pulse time of about 1 and 5 seconds of each other. Each signal is applied at the output of
With a positive edge at input EN the conversion is started. Here, the clock pulse is output on the TA pin. The analog signal at the output of AA is valid by falling edge of the clock pulse output TA. After the eighth falling edge of the output TA output DA is positive, and indicates the end of the clock pulse. To restart it, the digital input EN must be switched low. The next positive edge at input EN starts the clock pulse again.

The clock pulse can be changed with the DIP switch under the front panel.
If the switch is open, the clock pulse time is 5 s.
If the switch is closed to the right, the clock pulse time is about 1sec.
Switching closed to the left, stops the clock pulse.
Die mounting situation is free. The connections are made via screw terminals.

The TAMP8 is contact less and therefore maintenance-free. He should be protected from moisture and heavy soiling.

Technical Data

Housing :	Wieland WEB, IP 00
B x H x D :	93 x 94 x 55 mm³ for DIN-Rail mounting
Clamps:	max. 2,5 mm²
Power supply Ue :	24 VDC (22 ... 28 V) ca. 150 mA
Input E1 – E8 :	8 x PT 100 with 2,5 mA constant current
Output AA :	0 ... 20 mA (≤ 500 Ω) max. 10 V (0°C … 100°C)