

Temperatur-Messumformer MU 500L

Eingang für Pt100 oder Pt1000 Temperaturfühler

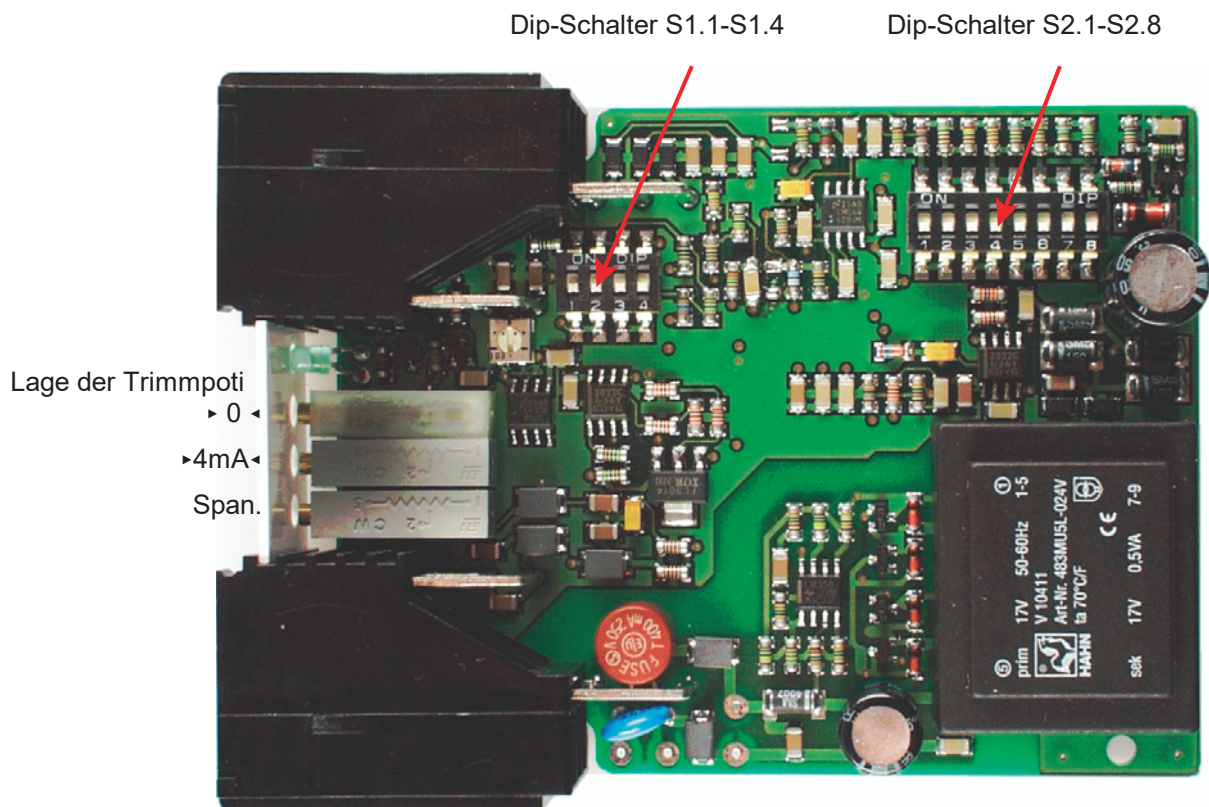
Abgleichanweisung

Messbereichskonfiguration

- Messbereichsanfang an den Schaltern S1.1 bis S1.4 gemäß Tabelle 1 (für Pt100) bzw. Tabelle 3 (für Pt1000) einstellen.
- Messspanne (Temperaturhub) an den Schaltern S2.1 bis S2.8 gemäß Tabelle 2 (für Pt100) bzw. Tabelle 4 (für Pt1000) einstellen.

Abgleich

- Messbereichsanfang
Simulator auf Messbereichsanfang stellen
Mit Trimpoti ▶ **0** ◀ die Ausgangsspannung auf $0V \pm 5mV$ abgleichen.
Der Ausgangsstrom muß im Bereich $-0,03 \dots +0,03mA$ liegen.
- 2V/4mA-Punkt (Brücke an Klemme 5-6)
Mit Trimpoti ▶ **4mA** ◀ Ausgangsspannung auf $2V \pm 5mV$ abgleichen.
Der Ausgangsstrom muß im Bereich $3,97 \dots 4,03mA$ liegen.
- Messbereichsende
Simulator auf Messbereichsende stellen (= Spanne - Anfang)
Mit Trimpoti **Span** die Ausgangsspannung auf $10,000V \pm 5mV$ abgleichen.
Der Ausgangsstrom muß im Bereich $19,96 \dots 20,04mA$ liegen



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Tabelle 1, Pt100 Anfangswert

Anfangswert [°C]	Schalterstellung			
	S1.1	S1.2	S1.3	S1.4
-110 ... -100	OFF	OFF	OFF	OFF
-100 ... -95	ON	OFF	OFF	OFF
-95 ... -90	OFF	ON	OFF	OFF
-90 ... -82	ON	ON	OFF	OFF
-82 ... -74	OFF	OFF	ON	OFF
-74 ... -65	ON	OFF	ON	OFF
-65 ... -55	OFF	ON	ON	OFF
-55 ... -45	ON	ON	ON	OFF
-45 ... -34	OFF	OFF	OFF	ON
-34 ... -20	ON	OFF	OFF	ON
-20 ... -5	OFF	ON	OFF	ON
-5 ... +14	ON	ON	OFF	ON
+14 ... +32	OFF	OFF	ON	ON
+32 ... +57	ON	OFF	ON	ON
+57 ... +85	OFF	ON	ON	ON
+85 ... 120	ON	ON	ON	ON

Tabelle 2, Pt100 Messspanne (Temperaturhub)

Messspanne [°C]	Schalterstellung							
	S2.1	S2.2	S2.3	S2.4	S2.5	S2.6	S2.7	S2.8
50,0 - 55,0	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
55,0 - 60,5	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
60,5 - 66,5	ON	ON	OFF	ON	OFF	ON	ON	ON
66,5 - 73,2	ON	ON	ON	OFF	OFF	OFF	ON	ON
73,2 - 80,5	ON	ON	ON	OFF	ON	OFF	OFF	ON
80,5 - 88,6	ON	ON	ON	OFF	ON	ON	ON	OFF
88,6 - 97,4	ON	ON	ON	ON	OFF	OFF	OFF	ON
97,4 - 107,1	ON	ON	ON	ON	OFF	ON	OFF	OFF
107,1 - 117,9	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
117,9 - 129,6	OFF	OFF	ON	OFF	ON	ON	ON	ON
129,6 - 142,6	OFF	OFF	ON	ON	ON	OFF	ON	OFF
142,6 - 156,9	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
156,9 - 172,6	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
172,6 - 189,9	OFF	ON	OFF	OFF	ON	ON	ON	ON
189,9 - 208,9	OFF	ON	OFF	ON	OFF	ON	OFF	ON
208,9 - 229,7	OFF	ON	OFF	ON	ON	OFF	ON	OFF
229,7 - 252,7	OFF	ON	OFF	ON	ON	ON	ON	OFF
252,7 - 278	OFF	ON	ON	OFF	OFF	OFF	ON	OFF
278 - 305,8	OFF	ON	ON	OFF	OFF	ON	OFF	ON
305,8 - 336,4	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
336,4 - 370	OFF	ON	ON	OFF	ON	OFF	ON	OFF
370 - 407	OFF	ON	ON	OFF	ON	ON	OFF	OFF
407 - 445	OFF	ON	ON	OFF	ON	ON	ON	OFF
445 - 492	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
492 - 542	OFF	ON	ON	ON	OFF	OFF	ON	OFF
542 - 596	OFF	ON	ON	ON	OFF	OFF	ON	ON
596 - 655	OFF	ON	ON	ON	OFF	ON	OFF	OFF

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Tabelle 3, Pt1000 Anfangswert

Anfangswert [°C]	Schalterstellung			
	S1.1	S1.2	S1.3	S1.4
-58 ... -50	OFF	OFF	OFF	OFF
-50 ... -45	ON	OFF	OFF	OFF
-45 ... -38	OFF	ON	OFF	OFF
-38 ... -32	ON	ON	OFF	OFF
-32 ... -25	OFF	OFF	ON	OFF
-25 ... -18	ON	OFF	ON	OFF
-18 ... -10	OFF	ON	ON	OFF
-10 ... -2	ON	ON	ON	OFF
-2 ... +6	OFF	OFF	OFF	ON
+6 ... +15	ON	OFF	OFF	ON
+15 ... +26	OFF	ON	OFF	ON
+26 ... +37	ON	ON	OFF	ON
+37 ... +48	OFF	OFF	ON	ON
+48 ... +61	ON	OFF	ON	ON
+61 ... +75	OFF	ON	ON	ON
+75 ... +90	ON	ON	ON	ON

Tabelle 4, Pt1000 Messspanne (Temperaturhub)

Messspanne [°C]	Schalterstellung							
	S2.1	S2.2	S2.3	S2.4	S2.5	S2.6	S2.7	S2.8
9,0 - 10,7	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
10,7 - 12,9	ON	OFF	ON	OFF	ON	OFF	ON	ON
12,9 - 15,6	ON	ON	OFF	ON	ON	ON	ON	OFF
15,6 - 18,9	ON	ON	ON	OFF	ON	OFF	ON	ON
18,9 - 22,9	ON	ON	ON	ON	OFF	ON	ON	OFF
22,9 - 27,7	ON	ON	ON	OFF	ON	ON	ON	OFF
27,7 - 33,5	OFF	OFF	ON	ON	ON	ON	ON	ON
33,5 - 40,5	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
40,5 - 49,9	OFF	ON	OFF	ON	OFF	ON	ON	ON
49,9 - 60,4	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
60,4 - 73,1	OFF	ON	ON	OFF	OFF	ON	ON	ON
73,1 - 88,5	OFF	ON	ON	OFF	ON	OFF	ON	ON
88,5 - 107,1	OFF	ON	ON	OFF	ON	ON	ON	ON
107,1 - 129,6	OFF	ON	ON	ON	OFF	OFF	ON	OFF
129,6 - 156,8	OFF	ON	ON	ON	OFF	OFF	ON	ON
156,8 - 189,7	OFF	ON	ON	ON	OFF	ON	ON	ON
189,7 - 230,0	OFF	ON	ON	ON	ON	OFF	OFF	OFF