



## Process displays for transmitters and industrial temperature probes

Display and Control

Limits



Testo's Series 54 Displays and Process Control Devices are the ideal complement for Testo's stationary measurement systems. The displays are used wherever process data run together and are monitored:

- in switch cabinets
- in control rooms
- outside the system

● **User-friendly operation: The characteristics for common thermocouples such as type T, K, J are integrated in the display for temperature probes**

● **Easy to read display: 5 digit LED display from -19999 to 99999**

● **Up to 2 limit values can be programmed**

● **Easy to install: The DIN housing 96 x 48 mm or 48 x 24 mm fits into the standard control panel slot**

### testo 54 series

9 different versions of process displays and control devices

See Ordering data below



Process displays and control devices for industrial temperature probes



Process displays and control devices for transmitters with current/voltage output

### Ordering data/Process Displays and Control Devices Part no.

testo 54-1DC, Process display for thermocouples, resistance thermometer and sensors in the mV range, power: 24 VDC	5400 6551
testo 54-1AC, Process display for thermocouples, resistance thermometer and sensors in the mV range, power: 230 VAC (110 VAC)	5400 7551
testo 54-2DC, Process control device with 2 limits for mA and V input signals, power: 24 VDC	5400 6553
testo 54-2AC, Process control device with 2 limits for mA and V input signals, power: 230 VAC (110 VAC)	5400 7553
testo 54-3DC, Process control device with 2 limits for thermocouples, resistance thermometer and sensors in the mV range, power: 24 VDC	5400 6554
testo 54-3AC, Process control device with 2 limits for thermocouples, resistance thermometer and sensors in the mV range, power: 230 VAC (110 VAC)	5400 7554
testo 54-4DC, Process display for mA and V input signals, power: 24 VDC	5400 6529
testo 54-5DC, Process display for Pt100 and Ni100 resistance thermometer, power: 24 VDC	5400 6531
testo 54-6DC, Process display for thermocouples type J, K, N, power: 24 VDC	5400 6532

### Recommendation:

The process displays from the testo 54 series can be used for local display of readings in conjunction with hygrotest 500/600/650 transmitters (from page 332) and industrial temperature probes (from page 316). (Types 54-2DC, 2AC, 4DC).

### Technical data

testo 54-1, Displays

testo 54-2, Control devices

testo 54-3, Control devices

96 x 48 mm DIN housing

14 mm high digits

Easy, menu-guided programming via 2 or 4 buttons

Programmable input characteristic with up to 24 points

Connection via terminal block

5 digit LED display

14 bit resolution

Display range -19999 to 99999

testo 54-4, Display

testo 54-5, Display

testo 54-6, Display

48 x 24 mm DIN housing

8 mm high digits

Easy, menu-guided programming via 2 buttons

Connection via terminal block

5 digit LED display

14 bit resolution

Display range -19999 to 99999

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**Instrument Overview / Technical Data**

	testo 54-1DC	testo 54-1AC	testo 54-2DC	testo 54-2AC	testo 54-3DC	testo 54-3AC	testo 54-4DC	testo 54-5DC	testo 54-6DC
<b>Inputs</b>									
4...20 mA, 0...20 mA, 0...10 V, 2...10 V			✓	✓			✓		
Thermocouples									
Resistance thermometer: 0...400Ω, 0...4000Ω	✓	✓			✓	✓		Pt100 Ni100	Thermo- couples
Voltage input: 0...100 mV, -100...+100 mV									
Integrated characteristic line for thermocouples (Type B, E, J, K, N, R, S, T)	✓	✓			✓	✓			J, K, N
Programmable input characteristic line for up to 24 starting points	✓	✓	✓	✓	✓	✓	✓		
Resolution 0.1 °C (°F) and 1 °C (°F)	✓	✓	Scaling dependent	Scaling dependent	✓	✓	Scaling dependent	✓	✓
Measuring speed approx. 1...4/sec	✓	✓	✓	✓	✓	✓	1...2/s	1...2/s	1...2/s
Linearity <0.1% ±1 digit at 20 °C	✓	✓	✓	✓	✓	✓	✓	Pt100<0.1% Ni100<0.2%	<0.4%
Input Reset			✓	✓	✓	✓			
<b>Outputs</b>									
Two limit values programmable			✓	✓	✓	✓			
Programmable hysteresis			✓	✓	✓	✓			
Set button to reset outputs			✓	✓	✓	✓			
Relay with floating change-over contact can be parametered as opener or closer			✓	✓	✓	✓			
Switching voltage: max. 250 VAC/300 VDC			✓	✓	✓	✓			
Switching current: max. 3 A; min. 30 mA			✓	✓	✓	✓			
Switching power: 50 W / 2000 VA			✓	✓	✓	✓			
Auxiliary power: DC 10 V; ± 2 %; 30 mA	✓		✓	✓	✓	✓			
Auxiliary power: DC 24 V; ± 15 %; 50 mA		✓		✓		✓			
<b>Power supply</b>									
Operating voltage: 10...30 VDC	✓		✓		✓		✓	✓	✓
Operating voltage: 90...260 VAC		✓		✓		✓			
Power consumption: Max. 2 W	✓		✓		✓		✓	✓	✓
Power consumption: Max. 6 VA		✓		✓		✓			
Mains hum suppression: digital filter 50 Hz / 60 Hz	✓	✓	✓	✓	✓	✓	50 Hz	50 Hz	50 Hz
<b>General data</b>									
Minimal/maximum value storage	✓	✓					✓	✓	✓
Set button to reset minimum and maximum value	✓	✓					✓	✓	✓
Data storage with EEPROM 1 million storage cycles or 10 years	✓	✓	✓	✓	✓	✓	✓	✓	✓
EMC stability to 89/336/EEC	✓	✓	✓	✓	✓	✓	✓	✓	✓
Operating temperature -10°C...+50°C	✓	✓	✓	✓	✓	✓	✓	✓	✓
Storage temperature -25°C...+70°C	✓	✓	✓	✓	✓	✓	✓	✓	✓
Weight	190 g	190 g	220 g	220 g	220 g	220 g	50 g	50 g	50 g
Protection class IP65 (front side)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Key to block keypad			✓	✓	✓	✓			

Temperature ranges: Pt100 to DIN IEC 751, Ni100 to DIN 43760, TCs according to DIN IEC 584

