

THP 94



Autotuned, microprocessor based digital controller

PID control function, 2- and 3-point control function, 3-point-step control

Measuring inputs: 1

- Resistance thermometer: Pt 100
- Thermocouples:
J, K, S, B, E, L, N, R, T, U
- Voltage signal:
0...50 mV
- Norm signals: 0 (4)...20 mA, 0 (1)...5 V
0 (2)...10 V

Outputs: max. 5, up to 2 x contr. output resp. 4 x alarm outputs possible

- Relay: SPDT, 6 A / 2,25 A / 250 VAC
- SSR drive:
24 VDC/25 mA

Displays: 4-digits, 7-segment LEDs
2-lines

Process value: red, 10 mm high
Set value: green, 8 mm high

Resolution: -1999 ... 9999 digits
- Temperature: 1/1 or 1/10
- Norm signal: free scalable
free setting of decimal point

Temperature units: °C, °F, °R

Accuracy: ± 0.15 % FS ± 1 digit

Transmitter supply: 18 VDC / 30 mA

Serial interface: RS 485 (opt.)

Control inputs: 2 x digital (opt.)

Heater break function (opt.)

Protection class: IP 54 (front)

Faston terminal block: 6,3 m

Dimensions: (W x H x D)
48 x 96 x 100 mm

Power supply:

- 24 VAC/DC, ± 10%, 50/60 Hz
- 90...240 VAC, ± 10%, 50/60 Hz

TLK 43



Autotuned, microprocessor based digital controller

PID control function, 2- and 3-point control function, 3-point-step control

Measuring inputs: 1

- Resistance thermometer: Pt 100
- Semiconductor: PTC / NTC
- Thermocouples:
J, K, S, B, E, L, N, R, T, C
- Voltage signals:
0...50 mV, 0 (12)...60 mV
- Norm signals: 0 (4)...20 mA, 0 (1)...5 V
0 (2)...10 V

Outputs: max. 4, up to 2 x contr. output resp. 3 x alarm outputs possible

- Relay: SPST, 5 A / 2 A / 250 VAC
- SSR drive:
14 VDC / 7 mA (20 mA)
- Norm signal: (control or signal)
0(4)...20 mA, 0(2)...10 V

Displays: 4-digits, 7-segment LEDs
2-lines

Process value: red, 7 mm high
Set value: green, 7 mm high

Resolution: -1999 ... 9999 digits
- Temperature: 1/1 or 1/10
- Norm signal: free scalable
free setting of decimal point

Temperature units: °C, °F

Accuracy: ± 0.15 % FS ± 1 digit

Transmitter supply: 12 VDC / 20 mA

Serial interface: RS 485 (opt.)

Control inputs: 1 x digital (opt.)

Heater break function (opt.)

Protection class: IP 54 (front)

Screw terminal block

Dimensions: (W x H x D)
48 x 48 x 98 mm

Power supply:

- 24 VAC/DC, ± 10%, 50/60 Hz
- 90...240 VAC, ± 10%, 50/60 Hz

TLK 41 / TLK 42



Autotuned, microprocessor based digital controller

PID control function, 2- and 3-point control function

Measuring inputs: 1

- Resistance thermometer: Pt 100
- Semiconductor: PTC / NTC
- Thermocouples:
J, K, S
- Voltage signals:
0...50 mV, 0 (12)...60 mV
- Norm signals: 0 (4)...20 mA, 0 (1)...5 V
0 (2)...10 V

Outputs: max. 4, up to 2 x contr. output resp. 3 x alarm outputs possible

- Relay: SPST, 5 A / 2 A / 250 VAC
- SSR drive:
14 VDC / 7 mA (20 mA)

Displays: 4-digits, 7-segment LEDs

- **TLK 41:** 1-line
Process value: red, 12 mm high
Trend display shift index (3 LEDs)

- **TLK 42:** 2-lines
Process value: red, 7 mm high
Set value: green, 7 mm high

Resolution: -1999 ... 9999 digits
- Temperature: 1/1 or 1/10
- Norm signal: free scalable
free setting of decimal point

Temperature units: °C, °F

Accuracy: ± 0.15 % FS ± 1 digit

Transmitter supply: 12 VDC / 20 mA

Serial interface: RS 485 (opt.)

Heater break function (opt.)

Protection class: IP 54 (front)

Screw terminal block

Dimensions: (W x H x D)
48 x 48 x 98 mm

Power supply:

- 24 VAC/DC, ± 10%, 50/60 Hz
- 90...240 VAC, ± 10%, 50/60 Hz