Handheld instrument

Display / Controller

Logger / EASYBus

Transmitter

Temperature probe

Alarm / Protection

digital controller for temperature and process values

TLK 38

TLK 39

Front
33 x 75

Autotuned, microprocessor based digital controller
with 2-, 3-point or PID control
and adjustable set point gradient (ramp function)

TLK 38 (33 x 75 mm)   **as of**

TLK 39 (33 x 75 mm)   **as of**

Specification:

Measuring input: *Please specify type required on order!*
 - Pt100 (3-wire) and thermocouples: J, K and S
 - PTC KTY 81-121, NTC 103AT-2 (2-Leiter) and
    thermocouples: J, K and S
 - normalized signals: 0(4) ... 20 mA
 - normalized signals: 0(1) ... 5 Volt and 0(2) ... 10 Volt

Measuring ranges:
Pt100: -200...850°C; PTC: -55...+150°C; NTC: -50...+110°C;
Typ J: -0...1000°C, Typ K: 0...1370°C, Typ S: 0...1760°C

Resolution: temperature: 0.1, 1°C bzw. 0.1, 1°F
normalized signals: scale freely adjustable, -1999...9999 digit

Accuracy: ± 0.5 % FS ±1 digit

Measuring rate: approx. 8 measurements / sec.

Display: 4-digit, 12 mm high LED-display (TLK38) resp.
 two lines, each 4-digit, 7 mm high LED-display (TLK39)

Outputs: 1 (standard) or 2 (option) switching outputs
 available output versions (standard = relay-output)
 - relay output (close contact, switching power: 8A/3A, 250VAC)
 - solid state relay (SSR drive): 8V DC / 8mA

Controller state: 2-point, 3-point (with optional second output) or
 PID control.

Autotuning: the autotuning function guarantees the most briefly
 programming of all requested values.

Power supply for transmitter: 12VDC / 20mA (only for power supply = 12VDC)

Housing: 75 x 33 x 64 mm, panel cutout: 71 x 29 mm,
 Mounting by means of clamping frame

Protection class: front IP65 (mounted in panel with gasket)

Electric connection: screw-type terminals

Operating conditions: 0 ... +55 °C, 30 ... 95 %RH. (non condensing)

Storage temperature: -10 ... +60 °C

Power supply: standard: 12 VAC ±10%, 50/60Hz a. 12 VDC ±10%
options: 24 VAC/DC ±10% or 90...240 VAC ±10%, 50/60Hz

Power consumption: approx. 4 VA

Orderinformation: (Attention: measuring input has to be stated!)

TLK39 / ME: Pt100, 230VAC, Rel2: TLK39 with meas. input
 Pt100, 230VAC power supply and 2 outputs (2 * relay)

Implementations. Options:

ME: Pt100 meas. input: Pt100 and thermocouple

ME: Temp meas. input: PTC, NTC, thermocouple

ME: mA   meas. input: current (0-20mA, 4-20mA)

ME: V   meas. input: voltage (0-5V, 0-10V, 1-5V, 2-10V)

24V: Power supply: 24V AC/DC

230VAC: Power supply: 90...240V AC

HLR1:   output 1 = SSR drive

HLR2:   2nd switching output with SSR drive

REL2:   2nd switching output as relay output