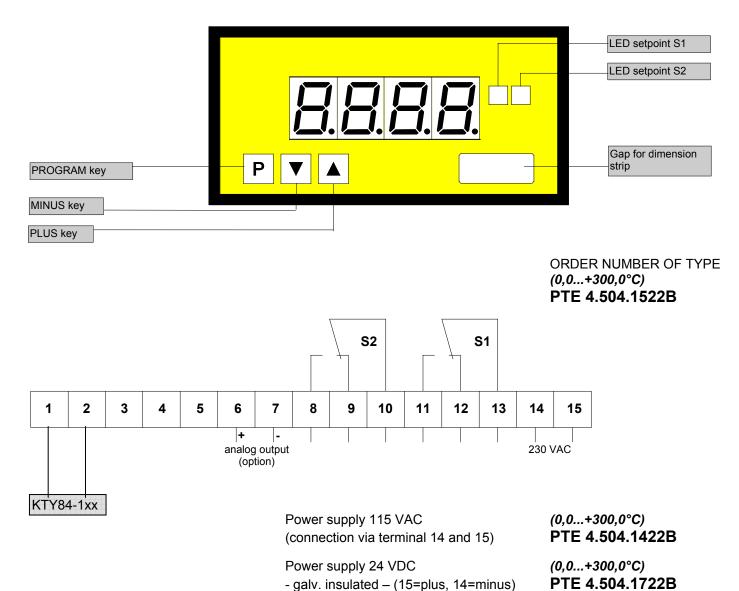
Temperature metering KTY84-1xx – microprocessor based technology Standard: 2 setpoints, min/max memory

Mounting into panels with thickness up to 50 mm - optional analogue output





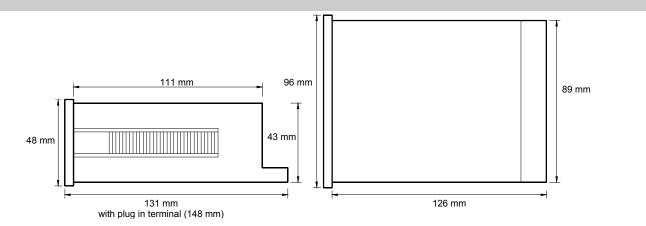
Options

- Green LED
- Protection IP54
- Protection IP65
- Analog output 0-10 VDC (12 bit)
- Analog output 0-20 mA/load 500 Ω(12 bit)
- Analog output 4-20 mA/load 500 Ω (12 bit)
- Analog output 0-10 VDC (12 bit)
- Analog output 0-20 mA/load 500 Ω (12 bit) (su
- (supply voltage 24 VDC galvanically insulated) (supply voltage 24 VDC galvanically insulated)
- Analog output 4-20 mA/load 500 Ω (12 bit) (supply voltage 24 VDC galvanically insulated)
- Other power supplies on demand

Technical data

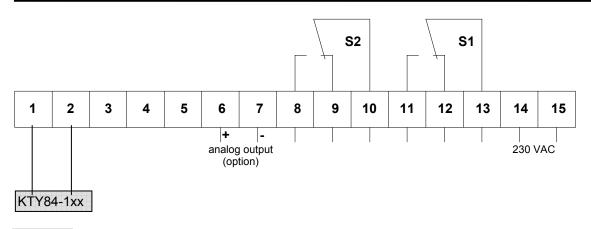
Dimensions	Housing Assembly cut out Fastening Housing material Protective system Weight Connection	96 x 48 x 134 mm, including screw terminal 92.0 ^{+0.8} x 45.0 ^{+0.6} mm special quick plastic clamp proper to fix in wall thickness up to 50 mm PC/ABS-plastic blend, colour black, UL94V-0 at the front IP40 connection IP00 approx. 0.450 kg at the rear side via screw terminals up to 2.5 mm ²
Input	KTY84-1 Measuring range Resolution Sensor current	2 wire 0.0 up to +300.0 °C 0.1°C approx. 1 mA
Output	Relay output Switching cycles Analogue output	charge 230 VAC/5 A – 30 VDC/2 A, with ohm resistive burden 0.5 * 10 ⁵ at max. contact rating 5 * 10 ⁶ mechanically Separation appropriate to DIN EN 50178/ Specification appropriate to DIN EN60255 0-10 VDC (12 bit) 0-20 mA (12 bit) - load 500 Ohm 4-20 mA (12 bit) - load 500 Ohm 4-20 mA (12 bit) - load 500 Ohm
Accuracy	Resolution Measuring fault Temp. drift Measuring principle	 b.1°C +/-4°C, +/- 5 Digit (0200°C), +/-7°C, +/- 5 Digit (> 200°C) 100 ppm/K voltage/frequency converter
Power unit	Supply voltage Power consumption	230/115 VAC +/- 10 % (50-60 Hz), 24 VDC (+/-10 %) galvanic insulated approx. 5 VA
Indication	Display Overflow Indication time	LED with 7 segments, 14 mm high, red 4-digit = indication 9999 indication of 4 transversal bars from 0.2 up to 10.0 seconds adjustable
Ambient conditions	Working temperature Storing temperature	0 up to + 60°C -20 up to + 80°C

Housing:



CE-sign For unlimited use of the instrument within the directives for electromagnetic compatibility 89/336/EC measuring wires have to be used with shielded cable and cable's shield connected to earth ground at one end only.

Connection diagram, programming, remarks



Setting

- 1. Connect the instrument according to the wiring diagram.
- 2. After power on, the instrument runs into a lamptest and returns back to the standard mode.
- 3. Pressing the P-key enters the program mode with indication of P2 on the display.
- 4. Pressing the **P**-key and ▲-key simultaneously steps through the different program numbers.
- 5. Pressing ▲ or ▼-key shows the current values.
- 6. To change values use \blacktriangle or ∇ -key.
- 7. The remaining values will be memorized automatically 7 seconds after the last touch of key with leaving program mode.

Additional key-functions in standard mode for indication of min/max values.

Simultaneously pressing of $\mathbf{\nabla}$ and $\mathbf{\Delta}$ key deletes and actualizes min/max-memory.

- ▲ key enters max-memory.
- ▼ key enters min-memory.

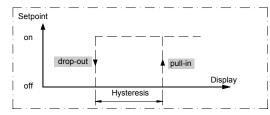
Instructions

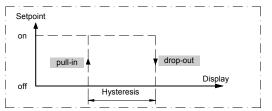
After power on the instrument with his inbuilt microcontroller starts with an initialprogram activating lamp test and readout of memorized parameters in an EEPROM

The following diagrams are showing the switching operation of PTE4 relay contacts. The hysteresis is free programmable. There are two kinds of operation:

Example: operation current

Example: quiescent current





Program table, example for programming

Program table 1

Subject to technical alteration - status 03/2006 - PTE4K841GB.DOC

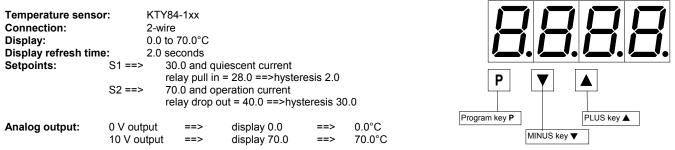
Program- Number (PN)	Function	Remark	Display	Basic parameters after reset
2	Sensor and line balancing	Temperature is displayed	0 to +/-20.0	0.0
3	Selection between °C or °F	Celsius=0 / Fahrenheit=1	0/1	0
4	Input of display time	Display time = measuring time Method of measurement integrating	0.2 to 10.0 seconds	1.0
5	Input of final value for analog output	Option	-999 to +9999	500.0
6	Input of offset for analog output	Option	-999 to +9999	0.0

Program table 2

(setpoints)

S1	S2	Funktion	Display	Basic parameters after reset
PN	PN			
61	66	Setpoint	-999 to +9999	100.0/150.0
62	67	Hysteresis	0 to +9999	0.1/0.1
63	68	Quiescent current	0	-
		Operating current	1	1/1

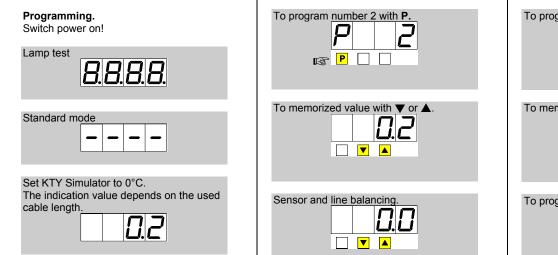
Example for programming

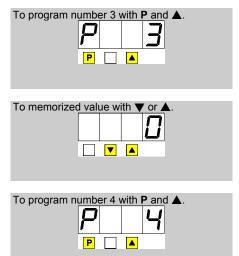


The basic adjustments concerning to the following program example are the ground parameters after a total reset occuring through a power on with pressing **P**-key (see previous page).

Program advices:

Pressing the **P**-key enters **always** the program mode with program number **2**. The **P2** starts to blink in change with the current value after 3 seconds. After further 4 seconds the system leaves the program mode and goes to the standard mode. In program mode pressing \checkmark or \blacktriangle -key selects the current values which are free scalable with both the keys. All the other parameters will be memorized automatically after leaving program mode.





Example for programming

