

## PPL-GMH-3710 & PPL-GMH-3750 Pt100 Thermometer



- Suitable for all Pt100 4-wire probes with 4-pin miniature DIN-plug
- Highest Accuracy ( $\pm 0.03^{\circ}\text{C}$ ) and Resolution ( $0.01^{\circ}\text{C}$ )
- Freely adjustable analogue output 0-1V or serial interface
- Offset and slope input
- Min-/max- value memory, hold function

### Additional functions of the PPL-GMH-3750:

- 2 integrated logger functions
- Optical and Acoustic Max/Min Alarm
- User defined sensor curve (50 interpolation points)
- Real-time clock with date and year

### Specification:

#### Measuring range:

-199,99 ... +199,99 $^{\circ}\text{C}$  resp. -200,0 ... + 850,0 $^{\circ}\text{C}$   
-199,99 ... +199,99 $^{\circ}\text{F}$  resp. -328,0 ... +1562,0  $^{\circ}\text{F}$

Resolution: 0,01 $^{\circ}\text{C}$  resp. 0,1 $^{\circ}\text{C}$  or 0,01 $^{\circ}\text{F}$  resp. 0,1  $^{\circ}\text{F}$

Linearisation: digital stored characteristic curve. PPL-GMH-3750 additionally supports a user defined curve.

Auto-range: automatic or manual choice of the measuring range.

Accuracy: (at nominal temperature = 25 $^{\circ}\text{C}$ )

< 0,03  $^{\circ}\text{C}$  at meas. range -199,99... 199,99 $^{\circ}\text{C}$   
< 0,1  $^{\circ}\text{C}$   $\pm 1$  digit at meas. range 200,0... 850,0 $^{\circ}\text{C}$

Temperature drift: < 0,002  $^{\circ}\text{C}$  / K

Probe: Pt100, 4-wire, BS EN 60751 probe connection via 4-pin miniature DIN-plug

Nominal temperature: 25 $^{\circ}\text{C}$

Working temperature: -25 to +50 $^{\circ}\text{C}$

Relative humidity: 0 to +95% RH (non-condensing)

Storage temperature: -25 to +70 $^{\circ}\text{C}$

Display: two 4½ digit LCDs (12.4mm or 7mm high), plus arrows.

Pushbuttons: 6 membrane keys

#### Output:

3-pin jack connector  $\varnothing 3.5\text{mm}$ , choice between serial interface or analogue output

- serial interface: direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter PPL-GRS-3100 or PPL-GRS-3105 resp. USB3100 (p.r.t. accessories).

- analogue output: 0...1V, freely adjustable (resolution 13bit, accuracy 0.05% at nom. temp.)

Power supply: 9V-battery, type PP3 (included) or external 10.5-12V d.c. power supply (suitable power supply: PPL-GNG10/3000)

Low battery warning: Display ' bAt '

Power consumption: approx. 1 mA

#### Dimensions:

142 x 71 x 26 mm (H x W x D) Impact-resistant ABS plastic housing, Membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip.

Weight: approx. 155 g

#### Function Range:

Min./Max. value memory: Memorizing of max. and min. values.

Hold function: By pressing a button the current values will be "frozen".

Auto-Off-Function: 1...120min (can also be deactivated).

Offset and slope input: offset- and scale correction can be entered digitally.

#### Additional functions of the PPL-GMH-3750:

Min-/Max-alarm: the measuring value is constantly monitored if they remain within the min./max. limits set.

- Alarm: 3 different alarm settings off: alarm function not activated  
on: visual alarm via display, integrated buzzer and interface  
no Sound: alarm via display and interface

- Regulating function: with the help of the switching module PPL-GAM3000 (optionally) electric equipment can be switched on/off or alarm memoried (p.r.t. page 35)

#### Logger functions:

-manually: 99 data sets (data recall via keyboard or interface)

-cycle: 16.200 data sets (data recall via interface)

-adjustable cycle time: 1sec. ... 1h

Logger start and stop via the keyboard or interface.

Comfortable read-out and display software (PPL-GSOFT3050) available as additional equipment.

Real-time clock: clock with date and year