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PPL-GMH-3230 & PPL-GMH-3250 Thermocouple Thermometer

- Dual input for two independent sensors
- 5 thermocouple types can be used
- Measuring range of -200 to +1768°C (dependent on thermocouple)
- Differential measurement between Probe 1 and Probe 2
- Correction factor for surface measurements
- Min./ Max. and Hold memory functions
- Zero off-set function
- Battery or mains power supply

Additional Features for PPL-GMH-3250

- Two integrated data logger functions
- Optical and audible alarms

Specifications for PPL-GMH-3230:

Thermocouples: J, K, N, S, T (acc. to DIN EN 60584)

Measuring ranges: (extract)

Type K: (NiCr-Ni)	-199,9 ... +999,9°C or -220 ... +1370°C
Type N: (NiCrSi-NiSi)	-199,9 ... +999,9°C or -200 ... +1300°C
Type S: (Pt10Rh-Pt)	0,0 ... +999,9°C or -50 ... +1750°C

Resolution: 0,1°C or 1°C (0,1°F or 1°F)

Accuracy: (±1digit) (at nominal temperature = 25°C)

Type K: -199,9 ... +999,9°C:	±0.03% of rdg. ±0.05% f.s. (T=-60°C)
	±0,2% of rdg. ±0,05% f.s. (T<-60°C)
-220 ... +1370°C:	±0,08% of rdg. ±0,1% f.s. (T=-100°C)
	±1°C ±0,1% f.s. (T<-100°C)
Type S: 0,0 ... +999,9°C:	±0,05% of rdg. ±0,08% f.s. (T=200°C)
	±1°C ±0,08% f.s. (T<200°C)
-50 ... +1750°C:	±0,1% of rdg. ±0,1% f.s. (T=200°C)
	±1°C ±0.1% f.s. (T<200°C)

Temperature drift: 0.01%/K

Point of comparison: ±0.3°C

Working temperature: -25 to +50°C

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

Storage temperature: -25 to +70°C

Probe connections: 2 jacks for miniature flat-pin plug

Display: two 4 digit LCDs (12.4mm or 7mm high), as well as additional functional arrows.

Pushbuttons: 6 membrane keys

Interface: Serial interface, direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter PPL-GRS3100 or PPL-GRS3105 resp. PPL-USB3100 (p.r.t. accessories).

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

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

Low battery warning: Display ' bAt '

Power consumption: approx. 1.6 mA

Min./max. value memory: Memorising of max. and min. values for probe 1, probe 2 and difference.

Hold function: By pressing a button all current values will be memorised.

Housing dimensions: 142 x 71 x 26 mm (L x W x D) Impact-resistant ABS plastic housing. Front side IP65, integrated pop-up clip for table top or suspended use.

Weight: approx. 155 g

Special applications:
Difference measurements: with a resolution of 0,1° or 1°. Temperature difference probe 1 - probe 2 can be displayed if 2 probes are connected.
Tare/diff-function: Press button to set the difference display 'probe 1 - probe 2' to zero.
Zero-point offset entry: By entering the offset temperature the parameter can be moved parallel to the calibration graph.
Compensation value for surface measurements:
A compensation value (to compensate for the loss when transferring heat from the meas. object to the probe) can be set and switched on/off for surface measurements if required.

Additional functions of the PPL-GMH-3250:

Min-/Max-alarm: The measured values of probe 1 or 2, probes 1 and 2 or the temp. difference are constantly monitored reg. the min. and max. values 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
- Controlling function: with the help of the switching module PPL-GAM3000 (optionally) electric equipment can be switched on/off or alarm memorised.

Logger functions:
-manually: 99 data sets (data recall via keyboard or interface)
-cycle: 9.999 data sets (data recall via interface)
-adjustable cycle time: 1sec. ... 1h
Logger start and stop via the keyboard or interface. Comfortable readout
and display software (PPL-GSOFT3050) available as additional equipment.
Real-time clock: clock with day, month and year