

The P-GM (Portable Glass Mould Thermometer) is a hand held, battery powered Non-Contact thermometer designed primarily for the measurement of mould temperatures in container glass industry. It gives an instantaneous reading of the temperature with the press of a single switch.

Readings taken are stored into memory and logged with Serial number and date/time for review later. Stored temperature readings are held in memory until deleted, they are not lost when the unit is turned off or the battery is removed. It provides a powerful data logging capability with storage for up to 1000 measurements.

P-GM comprises a hand held thermometer and processor, interconnected by a short rugged, detachable cable. The thermometer has an infrared detector with associated electronics and a rigid fibre optics probe, the tip of which is momentarily touched to the hot surface to make a measurement.

The processor has an easy to read LCD graphics display, operating buttons, and a data store. 4 AAA size rechargeable cell powers the whole system.

### Features

- **New** : Readings can now be logged with a time and date identifier - allowing a wider variety of analyses to be performed on the temperature data.
- **Fast, easy, single button measurement** : Touch the probe tip to the target surface and press the capture button. The temperature is taken and displayed (and stored).
- **Accurate** : Spectral response is 1.6  $\mu\text{m}$ . Short wavelength operation minimizes errors due to emissivity and/or optics contamination.
- **Portable and convenient** : Thermometer and processor are robust and lightweight. Probe is interchangeable on site.
- interchangeable on site, with probes of different lengths and bends.
- **Powerful data logging** : Up to 1000 readings can be stored, each reading.
- **Comprising** : temperature, time and date, emissivity. The stored data can be downloaded via a USB 2.0 to Computer.
- In-built charging



## Technical Specifications

### Thermometer

<b>Model</b>	<b>P-GM</b>
Temperature Range	250°C....600°C
Spectral Range	1.6 μm
Response Time	2 msec. Adjustable upto 10 sec.
Repeatability	0.1% of reading in °C +1°C
Accuracy	+/- 0.3% of the measured value +1°C
Power Requirement	None (powered from processor)
Ambient Temp. Limits	Max. 250°C at fiber optics cable and optical head

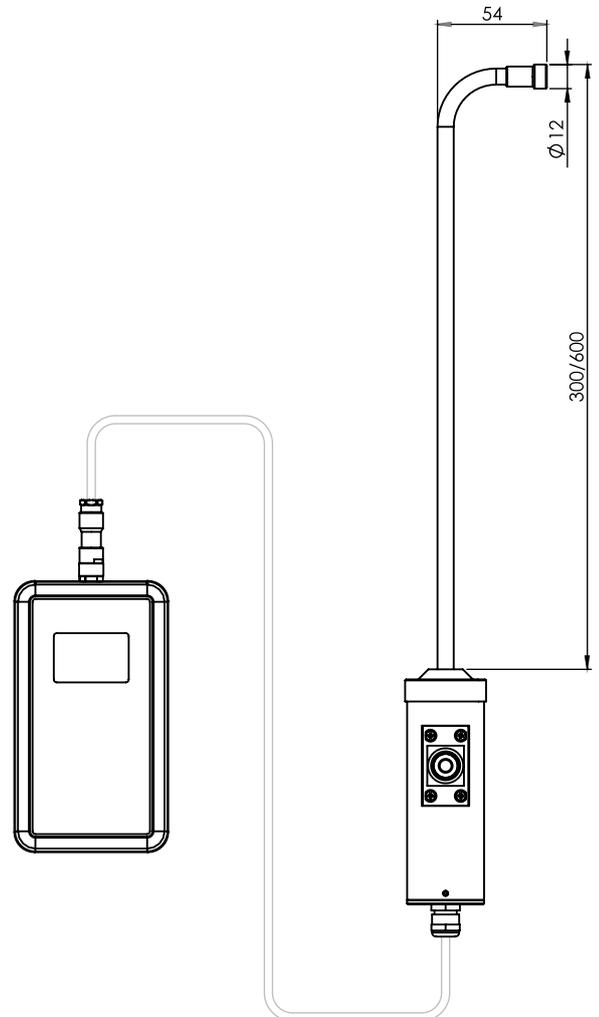
### Processor

<b>Model</b>	<b>P-GM</b>
Emissivity	0.1....1.0 adjustable
Digital Output	USB 2.0
Logging	1000 reading downloaded to PC via USB 2.0
Power Requirement	4 AAA rechargeable Cell
Operating Temp. Range	0...70°C at processor end
Dimension	135 x 76 x 27 mm
Adjustable parameter Keypad	Emissivity, peak picker, date/time, Response Time

## Standard Scope of Supply

- Probe
- Indicator
- Battery Charger
- Connecting Cable
- PC Software

## Drawing



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