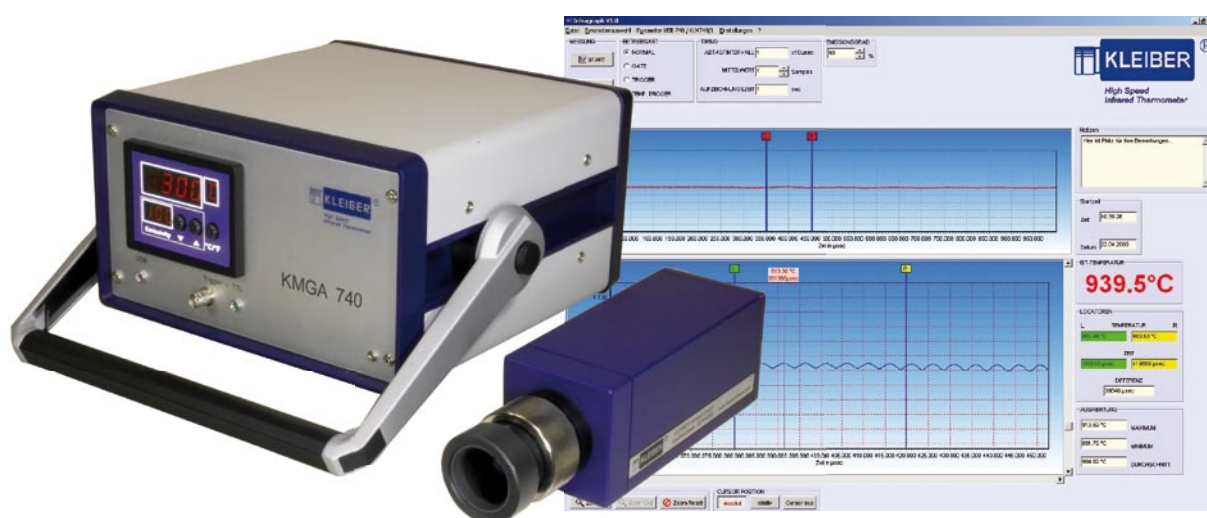


Fast measurement, fast controlling, fast switching

High Speed
Infrared Thermometer

KMGA 740 - KMGA 740-LO

High Speed temperature measuring station with USB for research & development departments



The **KLEIBER KMGA 740/ KMGA 740-LO** temperature measuring station represents the latest in micro-processor technology.

The pyrometer is designed to record and monitor infrared temperature measuring processes **especially in research and development areas**.

Its main features are **very wide measuring ranges** (e.g. 350 to 3500°C) and a **response time of just 10 μ s (t_{99})**.

The device contains a KLEIBER High Speed pyrometer (with or without fibre optics cable), display, power supply and a **USB interface**, in a bench unit with handle, plus easy to use evaluation software running on a PC.

The pyrometer connects to the rear of the bench unit and the measuring station connects to the PC via the USB interface. A trigger input and

measuring output of 0(4)...20 mA are also available.

The **user friendly evaluation software** displays the temperature curve on the PC screen. Within a freely adjustable time scale, the minimum, maximum and average temperatures are displayed graphically.

The areas of interest can be selected by setting locators within the display. The resolution of the software enables 1/100°C to be visible.

Two display windows illustrate the complete process. The first display shows the full measuring curve and the second goes into more detail. User notes and the graphics of the temperature measuring process can be stored as well as printed out.

To eliminate noise, the software features the option to produce the

mean value by setting a number of samples. The scan time is adjustable in steps of 10 μ s. Furthermore you can set up a recording time.

Modes of operation:

- **Normal:** Data acquisition occurs according to the sampling and acquisition time.
- **Gate:** Data acquisition occurs only at H-Level on trigger input.
- **Trigger:** With each L-H-rising edge at the trigger input, one value will be displayed.
- **Temperature trigger:** Record only on rise above or fall below a preset temperature level.

Applications:

- Research and Development
- Plasma measurement
- LCD production

KLEIBER combines decades of experience with a passion for cutting-edge technology.

Technical Data KMG 740 - KMG 740-LO

| | | |
|--------------------|----------------|----------------|
| Product: | KMG 740* | KMG 740-LO* |
| Temperature range: | 350 ... 3500°C | 350 ... 3500°C |
| Spectral range: | 2.0 ... 2.5 µm | 2.0 ... 2.5 µm |
| Order no.: | 4 330 020 | 4 330 030 |

*Measuring ranges possible as for KLEIBER 740

| | |
|--------------------------|--|
| Output signal: | 0 (4) ... 20 mA linear (please specify on order) USB - connection to PC |
| Accuracy: | 0.75 % of measured value (25°C, $\epsilon=1$, $t_{99}=1s$) |
| Repeatability: | < 0.3% of measured value (25°C, $\epsilon=1$, $t_{99}=1s$) |
| Response time t_{99} : | 10 µs |
| Emissivity ϵ : | 10 ... 100% (adjustable on digital display or via software) |
| Aiming: | LED- pilot light |
| Trigger input: | TTL-level, $U_{max} = 15 V$ |
| Power Supply: | 230 V AC, 50 ... 60 Hz, as option 115 ... 240 V available (please specify on order) |
| Measurement resolution: | 0.1 °C (1°C display resolution) |
| Safety class: | IP 54 (pyrometer), IP 20 (digital display) |
| Operating temperature: | 0 ... 40°C |
| CE-Mark: | according to EU-Regulations |
| Weight: | approx. 6.3 kg |
| PC requirements: | USB 2.0 interface CPU minimal: 1,0 GHz, 256 MB RAM, Windows 98 or better CPU recommended: 1,5 GHz, 512 MB RAM, Windows 2000, Windows XP |
| Scope of delivery: | Pyrometer with or without fibre optics, bench unit, USB cable, measurement cable, data cable, power cord, CD-ROM with evaluation software, inspection sheet, user manual |

Vario optics

| | | | | | | | | | | | |
|----------------|-----|-----|-----|------|------|------|------|------|------|------|------|
| Distance (mm): | 450 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2500 | 3000 |
| Spot size (mm) | 2.5 | 4.0 | 6.0 | 8.0 | 10.5 | 11.5 | 13.0 | 14.0 | 15.0 | 20.0 | 28.0 |

Optical heads (* specifications in mm)

| Standard optics | Distance* | Spot size Ø* | Fibre cable | Meas. ranges | Aperture* |
|-----------------|--------------|--------------|-------------|--------------|-----------|
| LVO 25 | 80 ... 300 | 1.6 ... 4.3 | blue | all | 18 |
| LVO 35 | 250 ... 1000 | 3.5 ... 11.0 | blue | all | 28 |
| Special optics | | | | | |
| LVO 25-S3 | 76 | 0.3 | red | > 400 °C | 17 |
| LVA 25 | 110 ... 800 | 0.8 ... 5.0 | red | all | 17 |

Fibre optics cable: available length between 1,5 and 25 m with stainless steel clad or PTFE clad as well as vacuum lead through special fibre optics cable

Accessories: The accessories range of the KMG 740/ KMG 740-LO corresponds to the KLEIBER 740 and KLEIBER 740-LO.

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