

Fast measurement, fast controlling, fast switching



Standard Line

## **KLEIBER KT 340 • KT 340-GL • KT 340-FL** *2-wire pyrometer with Emissivity corrector*

## **KLEIBER KT 342 • KT 342-GL • KT 342-FL** *2-wire pyrometer with Service-Interface*

Response time 100 ms

Adjustable subranges

Precise and digital

Small measuring spot sizes  
of 2 mm

Stainless steel housing



**- 32 ... 1200 °C**



Fig: with emissivity corrector and plug connection



Fig: with service-interface and plug connection

The compact **KLEIBER KT 340/342** is especially designed for **industrial use**. With the solid body in **stainless steel housing** and the **large variety on optics** with fixed focus it is applicable in nearly all industrial areas. Also several standard measuring ranges are available.

The infrared radiation of the measured object will be displayed on a detector and transferred in an electrical signal. This signal will be digitally processed and transferred in the standard temperature linear signal of **4 ... 20 mA**. It can be easily integrated in existing measuring and controlling systems.

Both wires of a two-wire-device will be used simultaneously for power supply and transmitting of the measuring signal.  
The **KT 34x** is applicable for measurements on **non-metallic or**

**coated metallic surfaces**, the **KT 34x-GL** especially for measurements on **glass surfaces**.

The **KT 34x-FL** is designed for measurement in **flame heated ovens** due to its special spectral range.

Thanks to the **emissivity corrector** on the rear side of the device (KT 340), the emissivity factor of the appropriate material can be adjusted easily.

Several default subranges can be factory-adjusted within standard measuring ranges.

Instead of the emissivity corrector **KT 342** is equipped with a **service interface**. Emissivity, subrange and response time can easily be adjusted by connecting the interface with the handheld programmer **KPT 300** or the KLEIBER Universal Interface **KUI 342 USB**.

The robust design as well as the wide range of accessories guaranty high operational reliability even at rough environmental conditions.

The device can be equipped with different optics due to application requirements. The KLEIBER 340 devices will be delivered with plug connector by default.

### **Application areas:**

- Plastics industry
- Paper industry
- Packaging industry
- Glass industry
- Ceramic industry
- Mechanical engineering and plant construction
- Furnace industry
- Chemical industry
- Footwear industry
- Food industry
- Research and development

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

KLEIBER 340/342

Product:	KT 340 KT 342	KT 340-GL KT 342-GL	KT 340-FL KT 342-FL
Temperature range:	- 32 ... 900 °C	100 ... 1200 °C	200 ... 1000 °C
Spectral range:	8 ... 14 µm	5,14 µm	3,9 µm
Distance / Spot size:	50 : 1	50 : 1	33 : 1
Optics: (see table)	VII VIII IX	IV V VI	IV V VI

Output signal:	4 ... 20 mA temperature linear, ohmic resistance max. 700 Ohm
Subrange:	KT 342: any range adjustable within temp. range via interface, minimum span 51 °C KT 340: subranges see table
Accuracy:	1 % of measured value (25°C, ε=1, t <sub>90</sub> =1s)
Repeatability:	< 0,5% of measured value (25°C, ε=1, t <sub>90</sub> =1s)
Response time t <sub>90</sub> :	100 ms
Emissivity ε :	0,2 ... 1,0 adjustable on device or with KPT 300 or via KUI 342 USB
Optics:	several fix optics available, see table
Aperture:	15 mm
Ambient temperature:	0 ... 70 °C
Storage temperatur:	- 20 ... + 70 °C
Power supply:	24 V DC ± 25%, ripple ≤ 500 mV
Safety class:	IP 65 (according to DIN 40 050)
Housing dimensions:	screw thread M 40 x 1,5 ; lenght 138 mm
Test base:	EN 55 011 : 1998, limit class A
CE-Symbol:	according to EU-regulations
Scope of delivery:	KLEIBER KT 340/ 342, inspection sheet, manual

### Standard optics, details in mm, M=Meas.field Ø, a=distance

Optics	a	M	a	M	a	M
IV	100	<b>2,5</b>	200	18	300	35
V	300	<b>6</b>	600	22	1000	45
VI	1200	<b>24</b>	2500	50	4000	80
VII	100	<b>2</b>	200	18	300	35
VIII	300	<b>6</b>	600	22	1000	45
IX	800	<b>16</b>	1500	36	2500	68



Made in Germany

### Subranges, devices with emissivity corrector only

KT 340	KT 340-GL	KT 340-FL
- 32...200 °C		
0...100 °C		
0...200 °C	100...1200 °C	200...1000 °C
0...300 °C	(other subranges on request)	
0...500 °C		
0...750 °C		

### Accessories

Description
Connecting cable
Mounting angle fixed
Mounting angle adjustable
Power supply NG0D
Power supply NG2D with limit switches
CZ-Rail power supply
Cooling jacket
Air purge unit
Laser pilot light unit
Connecting cable extension
Digital display DA 4000
Handheld programmer KPT 300
KLEIBER Universal-Interface KUI 342 USB

### KLEIBER Infrared GmbH

Carl-Zeiss-Strasse 5

D-07318 Saalfeld

Germany

Tel.: +49 (0) 3671 527 20-0

Fax: +49 (0) 3671 527 20-12

Email: [info@kleiberinfrared.com](mailto:info@kleiberinfrared.com)

Web: <http://www.kleiberinfrared.com>

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