

Fast measurement, fast controlling, fast switching



KLEIBER KS 342-LO • KGA 342-LO

Digital 2-wire pyrometer with service interface and fibre optical head for high temperature measurement

Response time from 20 ms

Service interface

Precise and digital signal processing

Small measuring spot sizes from 1.6 mm

LED targeting light



300 ... 2500°C

Fig: Service interface and plug connection

The **KLEIBER KS/ KGA 342-LO** is a compact and digital pyrometer especially designed for **industrial purposes**. This device is suitable for high temperature measurement of many different surfaces for example **metals, ceramics or graphite**.

The solid body in **stainless steel housing** allows usage even under rough environmental conditions. The fibre cable and the optical head can withstand ambient temperatures up to 260°C.

Two optical heads for small measuring fields from 1.6 mm at large distances are on offer.

The KLEIBER 342-LO comes with an fast **response time** of only **20 ms** (t_{90}).

The device possesses a service interface at the rear side. The optional KLEIBER Program-

ming Terminal **KPT 300** or KLEIBER Universal Interface **KUI 342 USB** with the service port allows to adjust emissivity, temperature subrange and response time independently.

The **LED pilot light** enables to focus the measuring object exactly. The size of the pilot light is identical to the measuring field.

Both wires of a **two-wire device** will be used simultaneously for power supply and transmitting of the measuring signal.

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**.

The KLEIBER 342-LO can be integrated in existing measu-

ring and controlling systems. The devices will be delivered with plug connector by default.

Application areas:

- Steel industry (e.g. forging and annealing)
- Furnace industry
- Soldering applications
- Ceramic industry
- Research and development
- Special applications

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

Product:	KS 342-LO		KGA 342-LO	
Temperature range:	650 ... 1800°C	800 ... 2500°C	300 ... 1300°C	350 ... 1800°C
Spectral range:	0.8 ... 1.1 µm		1.45 ... 1.8 µm	
Output signal:	4 ... 20 mA temperature linear, ohmic resistance max. 700 Ohm at 24V			
Subrange:	any range adjustable within temperature range via interface, minimum span 51 °C			
Accuracy:	0.5% of measured value in °C + 1°C (25°C, ε=1, t ₉₀ =1s)			
Repeatability:	0.1% of measured value in °C + 1°C (25°C, ε=1, t ₉₀ =1s)			
Response time t ₉₀ :	20 ms, adjustable via service interface up to 10 s			
Emissivity ε:	0.05 ... 1.0 adjustable via service interface (KPT 300 or KUI 342)			
Aiming:	LED pilot light			
Ambient temperature:	0 ... 70 °C			
Storage temperature:	- 20 ... + 70 °C			
Power supply:	24 V DC ± 25%, ripple 500 mV; LED: 5 ... 24 V DC, 35 mA			
Safety class:	IP 65 (according to DIN 40 050)			
Housing dimensions:	screw thread M 40 x 1.5 mm; 138 mm length			
Weight:	approx. 700g			
Test base:	EN 55 011: 1998, limit class A			
CE-Symbol:	according to EU regulations			
Scope of delivery:	KLEIBER KS 342-LO or KGA 342-LO with plug connection, inspection sheet, user manual			

Fibre optical head LVO 25 (* dimensions in mm)

Measuring distance*	80	100	120	140	160	180	200	220	240	260	280	300
Measuring field Ø*	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.1	3.4	3.7	4.0	4.3
Length*	63.2	60.0	58.1	56.2	55.4	54.6	54.0	53.6	53.1	52.7	52.4	52.1

Fibre optical head LVO 35 (* dimensions in mm)

Measuring distance*	250	300	400	600	800	1000
Measuring field Ø*	3.5	4.5	5.5	7.0	9.0	11.0
Length*	76.3	74.5	71.3	69.1	67.4	66.6



Made in Germany



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A company of MIKRON-IMPAC Group.

Accessories

Item
KLEIBER Programming Terminal KPT 300
KLEIBER Universal Interface KUI 342 USB with Software
Digital display DA 4000-N with 2-wire supply
Digital display DA 4000 with 2-wire supply and 2 limit switches
Mounting support with retaining pin Ø10 mm for LVO
Ball and socket mounting for LVO
Air purge unit for LVO
90° mirror for LVO
Cooling jacket with integrated air purge for LVO
Mounting angle adjustable
Mounting angle fixed
Connecting cable 2 m, other length on request
Power supply KNG
Power supply KNG-2