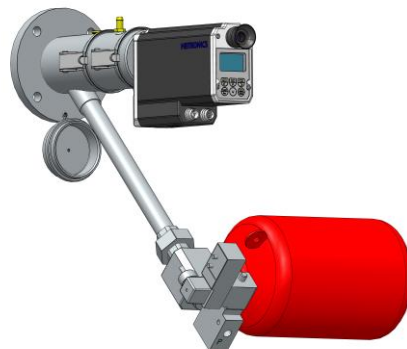


KT19.69 II QAL1

Infrared Radiation Thermometer

- QAL1-certified (DIN EN 15267)
- Measurement of flue gas temperature (medium/large boilers)
- minimum temperature-control in incinerators
- Wide range of accessories for protection in combustion processes



Measurement specifications	
Temperature range ¹ :	400 ... 1400 °C
Spectral range:	x ... y µm
Measurement uncertainty:	± 0.5 °C plus 0.7 % of the temperature difference between measured target and instrument
Temperature resolution (NETD):	Depending on the measured temperature and the response time Typical value ±0.8 °C (2 Sigma, by t ₉₀ : 3 s, 400 °C; ε = 1)
Long-term stability:	Better than 0.01 % of the absolute measured temperature per month
Field of view:	from Ø 0.7 mm (± 5 %) on, depending on optic and detector
Response time (t ₉₀):	10 s or 30 s
Temperature unit:	°C, K or °F
Emissivity:	0.100 ... 1.000 in 0.001 steps
Lens	CaF2
Electrical specifications / Functions	
Analog output:	4 ... 20 mA, resolution 12 bit, 400 ... 1400 °C
Function:	Actual value
Keyboard & multifunctional display:	For measured value display, programming parameters, alarm display etc.
Digital output:	Relais contact (normally open), maximum load: max. 10 VA, Load: voltage ≤ 48 V, current ≤ 0.5 A
Function:	Maintenance mode
Thermal switch:	Switching temperature > 70 °C, maximum load ≤ 48 V, ≤ 0.5 A
Function:	Internal temperature alarm
Serial interface:	RS232 Interface, bi-directional 9.6 ... 115.2 kBaud, connecting cable optional
Programmable via keyboard and serial interface:	Emissivity, response time, temperature unit...
Operating voltage:	DC: 20 ... 30 V AC: 24 V ± 10 %, 48 ... 400 Hz
Power consumption:	≤ 4 W

¹ depending on configuration

Technical Data Sheet

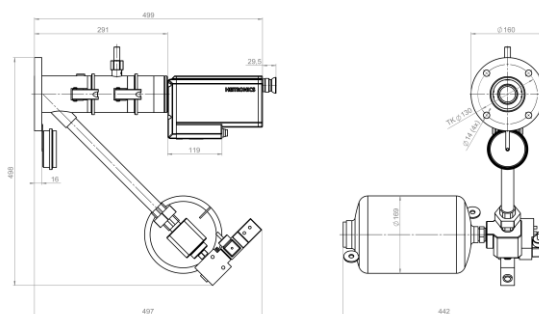
General specifications

Storage temperature:	-20 ... 70 °C
Permissible ambient temperature:	-20 ... 70 °C (optional with protective cooling jacket up to 250 °C)
Protection class:	IP65
Protection against oscillation:	DIN 40046 BL.8, test: FC, vibration resistance: A B1 E, frequency range: 10 ... 55 Hz, amplitude: ± 0.2 mm, Duration of test: 30 min
Housing:	Coated aluminum
Weight:	Apr. 2.4 kg
Electrical connection:	Analog output / supply voltage: 7-pin Digital: 12-pin

Scope of supply and options²

Accessories:	■³ Manual KT19 II ■ Software EasyMeas ■ Connecting cable with 7-pin female connector, 2 m length, PVC and unterminated ends □ Connecting cable, ≥ 5 m length: PTFE; PUR; PVC; TPE, unterminated ends or female connector □ Interface cable standard: 12-pin, 2 m length, PVC and unterminated ends Special: ≥ 5 m length: PTFE; PUR; PVC; TPE, unterminated ends or female connector
Calibration certificate:	□ HEITRONICS certificate
Housing:	□ Protective cooling jacket (water) WK300 up to 250 °C ambient temperature
Adapter and flanges:	□ See document Options and Accessories
Bus interface:	□ With transducer

Dimensions ⁴



Unit: mm

² Special model specification on request.

³ ■ Standard function

□ Option

⁴ The dimensions given within this document will be valid for the drawing shown.