

KT19.23 II

- Highest accuracy and long-term stability
- Application: Thin plastic films, PE, PP, PVC
- View finder option or camera set
- Fast response for real time process controls



Temperature range¹:	0 ... 600 °C
Spectral range:	6.8 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 0.15 °C (2 Sigma, by t ₉₀ : 3 s, 200 °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 (t₉₀):	Selectable from 30 ms ... 600 s
Temperature unit:	°C, K or °F
Emissivity:	0.100 ... 1.000 in 0.001 steps
Lens	CaF ₂ , ZnSe

Analog output: Function:	0 ... 1 V; 0 ... 10 V; 0 ... 20 mA; 4 ... 20 mA; resolution: 12 bit Actual, maximum or minimum value (scalable (minimum span 50 K))
Analog input: Function:	0 ... 10 V Compensation of ambient temperature influence, transmittance, reflection, emissivity
Keyboard and multifunctional display:	For displaying measured value, programming parameters, alarm etc.
Digital output: Function:	2 Relay output (normally open) Threshold detection Min, Max temperature value
Digital input: Function:	Dry contact switch or voltage or open-collector Reset of memory function, (de-)activate digital outputs or laser
Thermal switch: Function:	Switching temperature > 70 °C, maximum load ≤ 48 V, ≤ 0.5 A Internal temperature alarm
Serial interface:	RS232 interface, bi-directional 9.6 ... 115.2 kBaud, connecting cable optional
Laser aiming options:	Integrated pilot laser or focus laser
Programmable via serial interface:	Emissivity, analog output, analog output function, response time, temperature unit, Min and Max value memory adjustable with decay rate, reset by contact or temperature threshold, alarm switching point, time period etc.
Operating voltage:	DC: 20 ... 30 V AC: 24 V ± 10 %, 48 ... 400 Hz
Power consumption:	≤ 4 W

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Technical Data Sheet

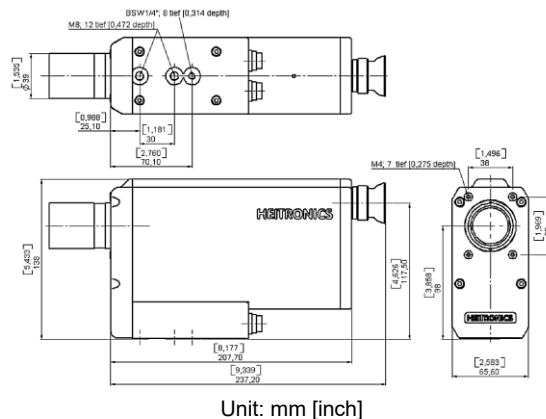
General specifications

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:	Appr. 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

Dimensions⁴



² Special model specification on request.

³ ■ Standard function

□ Option

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