

# Giotto & Kayak

Infrared Thermometers

Temperature Measurement from 0° to 2200°C - Accuracy 0.5%



GIOTTO



KAYAK



Infrared thermometers for industrial plants

Microprocessor Technology

Rugged and Accurate

Calibration Certificate



**SITEL Control**



### Electrical features

The infrared thermometer require a power supply between 9V and 36 Vcc, giving to the output a linear analog 4-20 mA and an RS485 digital output. The optional digital indicator mod. S4 provide the thermometer power supply and retransmit the analog and digital output for external use.

### TARGET SIZE

**LASER**

Target size mm	10	20	30
distance mm	1000	2000	3000

### Target

The infrared thermometers GIOTTO and KAYAK are settled to measure the temperature of objects with a minimum target size of 10 mm at a distance of 1000 mm.

Greater target size depends on the distance with a ratio of 100:1 (i.e. at a distance of 5000 mm the minimum target is 50 mm).

### Pointing System

- Electrical connection
- Emissivity setting

The instruments are complete of a red laser pointer, in order to obtain a perfect alignment to the measuring target. On the rear panel are located the laser button switch, the protected electrical connections and the rotary switch to select the emissivity and the peak-peak setting.

### Mechanical Features

GIOTTO and KAYAK thermometers are ready to be used in very hard environments, such as hot and dusty industrial plants. The thermometers are supplied with a reliable protective jacket (anticorrosive anodized aluminium). This air or water cooling jacket contains an integral air purge unit.

### Technical data

MODEL	GIOTTO H / KAYAK H	GIOTTO M / KAYAK M	GIOTTO L
TEMPERATURE RANGE °C	600 - 1600 / 900 - 2200	400 - 1100	0 - 800
SPECTRAL ANSWER	1 µm	1,6 µm	8 - 14 µm
FOCUSSING DISTANCE	from 1000 mm to 8	from 1000 mm to 8	from 1000 mm to 8
RESPONSE TIME	5 ms max	5 ms max	300 ms max
EMISSIVITY	adjustable from 0,20 to 1,00	adjustable from 0,20 to 1,00	adjustable from 0,20 to 1,00
TARGET DIAMETER	from 10 mm to 1000 mm	from 10 mm to 1000 mm	from 20 mm to 1000 mm
POINTING SYSTEM	Laser	Laser	Laser (optional)
ACCURACY	+ - 0.5% + - 1° C	+ - 0.5% + - 1° C	+ - 1% + - 1° C
TEMPERATURE STABILITY	0,2°C/°C ambient	0,2°C/°C ambient	0,2°C/°C ambient
REFERENCE TEMPERATURE	23°C	23°C	23°C
OPERATING AMBIENT TEMPERATURE	from -10° C to 60°C	from -10° C to 60°C	from -10° C to 60° C
OUTPUT SIGNAL	4 - 20 mA linear	RS 485 bidirectional	38.400 baud
POWER SUPPLY	from 9 to 36 V cc	from 8 to 25 V ac	50 / 60 Hz
PROTECTION LEVEL	IP 65	IP 65	IP 65
DIMENSION	270 x 90 x 90 mm	270 x 90 x 90 mm	270 x 90 x 90 mm

SPECIFICATION SUBJECT TO CHANGES WITHOUT NOTICE B GR02

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