

Documenting Portable Infrared Thermometers Molten Metal Specialized Applications



INFRARED THERMOMETERS

- ▶ Temperature Range from 1000°C to 2000°C
- ▶ Rugged with Protective Rubber Holster
- ▶ Optical Resolution 200:1
- ▶ 0.55 μm Spectral Response **NEW**
- ▶ TTS Dual Laser, Telescope or Red Point Target Pinpointing
- ▶ Large LCD Display with Automatic Backlight
- ▶ Up to 50 Preset Common Material Emissivity Values
- ▶ TC's type K's Input for Automatic Emissivity Setting
- ▶ Powered by Li-ION **NEW** Rechargeable Battery
- ▶ USB Interface **NEW** and IRLogMan 2007 Software
- ▶ Data Memory Grouped by Tag (500 Records)
- ▶ External IR printer **NEW**
- ▶ Traceable Report of Calibration



All descriptions are related to a fully optioned instrument. See last page for the different configurations.

Technical Specification

Temperature measuring range	1000 to 2000°C 1830 to 3630°F
Spectral response	0.55 µm
Target spot size @ distance	SF 5mm@1m Nominal target @ 90% of energy LD 50mm@10m
D:S target sighting ratio	SF 200:1
Accuracy IR	±0.25%Kof rdg.
Repeatability IR	±0.1%K of rdg
Temperature stability IR	±0.01% f.s./°C (for the band exceeding +18°C to +28°C)
Measurement sampling time	<150 ms
Emissivity	Adjustable from 0.10 to 1.00 - Downloadable material emissivity table
Thermocouple measuring ranges	type K from -100°C to +1370°C - 0.1°C resolution type S from 0°C to +1760°C - 0.1°C resolution
Thermocouple accuracy	type K±(0.05% of reading + 0.4°C) type S ±(0.05% of reading + 2.5°C)
Display	High contrast custom LCD with automatic backlight device
Display resolution	1°C / °F / K (0.1°C / 0.1°F in AVG mode up to 200°C)
Laser	Dual TTS or parallel
Digital interface	USB serial port / IR printer port
Calculated functions	average, max, min, diff, ambient temperature compensation
Data memory	500 input data structured by Tag (max. 20 Tag)
Power supply	Rechargeable Li-ION battery pack
Battery life	>20 h (backlight off)
Line operation	100, 115, 230V ±10% 50/60 Hz using the external charger
Battery recharging time	6 h at 90% (instrument switched off)
Operating temperature range	from -10°C to +60°C
Storage temperature range	from -10°C to +60°C
Case	Injection moulded ABS+ polycarbonate with protective rubber holster
Dimensions	200 x 180 x 80 mm

Ordering Code

Each instrument includes: battery line charger, IRLogMan 2007 software, USB cable, aluminium case, 1x "red point" system, instruction manual and E Instruments report of calibration.

Table A	Model	Range
1197	IRtec P MM	from 1000°C to +2000°C (1830 to +3630°F)
Table B	Optic	
SF	Standard focus with twin Red Dual TTS laser	
SFG	Standard focus with twin Green Dual TTS laser	
LD	Long distance with Dual parallel Red laser	
LDG	Long distance with Dual parallel Green laser	
Table C	Batteries / Line Charger	
USA	Li-Ion / 120 Vac with USA plug	
SCK	Li-Ion / 230 Vac with Schuko plug	
UK	Li-Ion / 230 Vac with UK plug	
EUR	Li-Ion / 230 Vac with European plug	
JAP	Li-Ion / 100 Vac with USA/Japan	
Table D	Accessories	
RED	Red point system	
Table E	Report of Calibration	
EC	NIST Traceable certificate	
1197 - SFG - EUR - RED - EC Typical ordering code		

Accessories

EE490012 IR Thermal Printer
EE340009 10 Rolls Thermal Paper

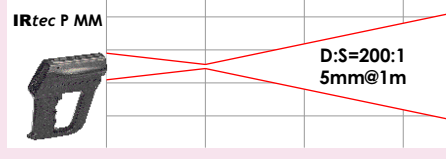
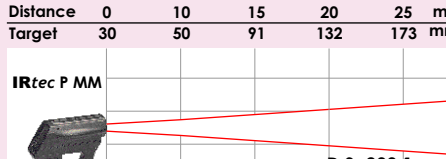
Applications
Molten Metals

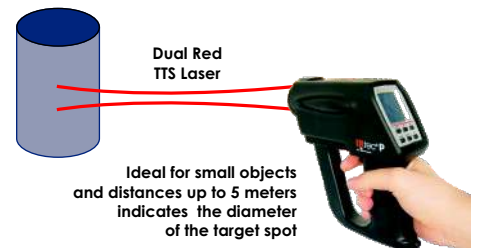
Infrared Thermal Printer

The standard infrared port, allows the operator to print a complete measure report (temperature, date and time, instrument model and serial number. 4 different forms are standard included for single measure, datalogging tag information printout.

Target Pinpointing
TTS - True Target Size

A dual laser pointer define at different distances the true target dimension. This unique and innovative system go over the limits of the old crossed laser pointer based system. TTS really guarantees the measuring of the true area diameter along all the optical path.

Distance	0	1000	2000	3000	mm	
Target	32	5	42	79	mm	
 <p>D:S=200:1 5mm@1m</p>						
Distance	0	40	80	120	in.	
Target	1.2	0.2	1.6	3.1	in.	
* Nominal target @ 95% of energy						
Distance	0	10	15	20	25	m
Target	30	50	91	132	173	mm
 <p>D:S=200:1 50mm@10m</p>						
Distance	0	32	49	65	82	ft.
Target	1.2	2	3.6	5.2	6.8	in.
* Nominal target @ 95% of energy						



Specifications may change without notice