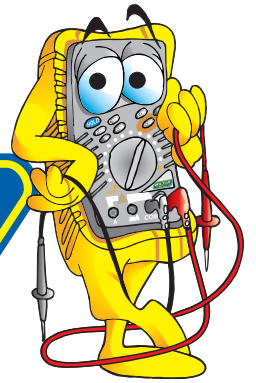


Infrared Thermometers

**MAJOR
TECH**



Technical Data

MT698

The new MT698 is a compact non-contact infrared thermometer with a response time of 150ms, providing fast, easy and accurate readings for most temperature measurements. The measured data can be interfaced with a computer via the USB cable which is supplied standard with the software. The MT698 has a 50:1 spot ratio and a high temperature range from $-50^{\circ}\text{C} \sim +1600^{\circ}\text{C}$. Two laser pointers have also now been added, which converge to a single spot when the unit is at the optimum distance from the object being measured. Other features include a K-Type temperature input; High and Low alarm setting, MIN/MAX, DIF and AVG record.

Features Include:

- 50 to 1 distance to target ratio measures smaller surface areas at greater distances
- 150ms faster sampling time with 1% accuracy
- Precision non-contact temperature measurements from $-50^{\circ}\text{C} \sim 1600^{\circ}\text{C}$
- Type K temperature measurement from $50^{\circ}\text{C} \sim 1370^{\circ}\text{C}$
- USB interface
- Built-in dual laser pointers for accurate targeting
- Unique flat surface modern housing design
- Automatic capture emissivity for targeting
- Emissivity digitally adjustable from 0.10 to 1.0
- 100 points memory
- 0.1°C Resolution
- Automatic data hold and trigger lock
- Selectable $^{\circ}\text{C}$ or $^{\circ}\text{F}$
- High and Low alarm
- Max, Min, DIF, AVG record
- White backlit LCD display

General Specifications

Response Time	: 150ms
Spectral Response	: $8 \sim 14 \mu\text{m}$
Emissivity	: Digitally adjustable from 0.10 to 1.0
Overrange Indication	: LCD will show "-----"
Polarity	: Automatic (no indication for positive polarity); minus (-) sign for negative polarity
Diode Laser	: Output $<1\text{mW}$, wavelength $630 \sim 670\text{nm}$, class (II) 2 laser product
Operating Temperature	: 0 to 50°C (32 to 122°F)
Storage Temperature	: -10 to 60°C (14°F to 140°F)
Relative Humidity	: $10\% \sim 90\%$ RH operating, $<80\%$ RH storage
Power Supply	: 9V battery, NEDA 1604A or IEC 6LR61, or equivalent
Safety	: "CE" Comply with EMC

TK Temperature Range -50 to 1370°C (-58°F ~ 2498°F)	
Accuracy	
-50 ~ 1000°C	± 1.5% of reading or ± 3°C (±5°F)
1000 ~ 1370°C	± 1.5% of reading or ± 2°C (±3.6°F)
Display Resolution	0.1°C <1000
	1°C >1000
Repeatability	
-50 ~ -1370°C (-58 ~ 2498°F)	± 1.5% of reading
IR Temperature Range -50 to 1600°C (-58°F ~ 2912°F) D:S 50:1	
Display Resolution	0.1°C (0.1°F) <1000
	1°F >1000
Accuracy for targets: Assumes ambient operating temperature of 23 to 25°C (73 to 77°F)	
-50°C ~ 20°C (-58°F~68°F)	± 2.5°C (4.5°F)
20°C ~ 400°C (68°F~752°F)	± 1.0% ± 1.0°C (1.8°F)
400°C ~ 800°C (752°F~1472°F)	± 1.5% ± 2.0°C (3.6°F)
800°C ~ 1600°C (1472°F~2912°F)	± 2.5%
Repeatability	
-50 ~ 20°C (-58 ~ 68°F)	± 1.3°C (2.3°F)
20 ~ 1200.0°C (68 ~ 2192°F)	± 0.8% ± 0.5°C (0.9°F)
1200 ~ 1600°C (2192 ~ 2912°F)	± 1.2% ± 1.0°C (1.8°F)

Ordering Information

HEAD OFFICE

Cnr Rover and Jaguar Roads, Rustivia Ext 3, Elandsfontein
P.O. Box 888, Isando 1600, South Africa
Telephone: +27 11 822 1551
Sales Fax: +27 11 822 2806
Admin Fax: +27 11 822 1411
e-mail: sales@major-tech.com
National Tel: 08 61 MAJORT / 08 61 62 5678

BRANCHES - DURBAN

6A Pastel Park, Wareing Road, Pinetown
P.O. Box 15550, Ashwood 3605
Telephone: +27 31 701 5830
Sales Fax: +27 31 701 6986

BRANCHES - CAPE TOWN

109 Kyalami Drive, Killarney Gardens
P.O. Box 60122, Tabelview 7439
Telephone: +27 21 556 3091
Sales Fax: +27 21 556 3093

BRANCHES - PORT ELIZABETH

175 Kempston Road, Sidwell
P.O. Box 22499, Port Elizabeth 6000
Telephone: +27 41 453 3818
Sales Fax: +27 86 633 9809

