

GPS

# 198T



### Key Features

- Built-in Thermal Imager design quickly identifies hot spots without contact
- 240 x 320 2.8" TFT color LCD display, 6000 counts
- Logging function with Trend Capture for easy review of logged data
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- AC, AC+DC true-RMS measurements & 1kHz ACV, ACA bandwidth
- A/D convert fast sampling time: 10 Times/sec.
- Peak capture (records transients as fast as 500μs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- 80x80 Infrared resolution
- Bluetooth BLE instant share function
- Easy to view and analyse images quickly

### Ideal for

- Repair and maintenance
- Outdoor measuring
- Circuit measurements

## A professional True RMS Industrial Digital Multimeter with built-in thermal imager design

Providing fast A/D converting sampling time, high accuracy with datalogging and Trend Capture features. An advanced system platform permits smart multifunction such as updating software on line, PC calibration and much more. Includes Meterbox iMM software & cloud server support to transfer the measured data to the customer's smartphone for edit and storage.

## Technical Specifications

Model GPS-198T			
<b>Thermal Imager</b>			
IR resolution	80x80 pixels		
Field of View (FOV)	21° x 21°		
Thermal sensitivity/NETD	< 0.08°C /80mK		
Image frequency	50Hz		
Object temperature range	range: -20 to 260°C (-4 to 500°F)		
Spectral range	8-14 µm		
Color palettes	IRON/Rainbow/Grey/Grey Inverted		
Accuracy	±2°C (±3.6°F) or ±2% of reading		
<b>True RMS Multimeter Functions</b>			
<b>Function</b>	<b>Maximum</b>	<b>Max resolution</b>	<b>Accuracy</b>
Voltage DC	1000V	100mV	± (0.1% + 3)
Voltage AC	1000V	100mV	± (0.9% + 20)
Current DC	10A	0.1µA	± (0.9% + 2)
Current AC	10A	0.1µA	± (1.2% + 5)
Resistance	60MΩ	0.1Ω	± (1.0% + 2)
Capacitance	6000uF	0.01nF	± (2.5% + 5)
Frequency	10MHz	0.01Hz	± (0.5% + 1)
Diode and Continuity	Yes		
IP65 Dust & Waterproof	Yes		

### Standard Accessories

Test leads  
Li-ion battery  
Type K temperature probe  
Software  
Carrying case

### Interface

Bluetooth

### EMC & LVD

2004/108/EC EMC Directive  
Low Voltage Directive 2009/95/EC

### Safety

EN61010-1 CAT IV 600V, CAT III 1000V  
1000V input protection on all ranges  
10A/1000V & 0.8A/1000V fuses  
protection on current ranges

## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-198T	True RMS Industrial Handheld Multimeter with Thermal Imager	400198

### Dimensions

195 x 80 x 58mm / 7.6 x 3.2 x 2.3" (w x d x h) approx.

### Mass

0.5kg/1.1lbs approx.

### Operating

0°C ~ 50°C  
80%RH, 40°C, 24hours  
≤3000m

### Services

1-year warranty (subject to product registration with GPS Ltd)

Visit [www.gpslimited.com/register-product](http://www.gpslimited.com/register-product)

Service and calibration available.

Please contact for more information

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