

## پتروفرهان گستر جنوب

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## MASTECH®

### 3. Specifications

Accuracy is specified for a period of year after calibration and at 18°C to 28°C(64°F to 82°F)with relative humidity to 75%.

#### 3.1 General specifications

- Environment conditions: 600V CAT. III  
Pollution degree: 2 Altitude < 2000m  
Operating temperature: 0~40°C, 32°F~122°F (<80% RH, <10°C non-condensing)  
Storage temperature: -10~50°C, 14°F~122°F (<70% RH, battery removed)
- Max. Voltage Between Terminals And Earth Ground: 600V DC or AC
- Auto ranges and manual range.
- Display: 20mm LCD
- Max. Show Value: 1999 (3 ½)
- Polarity Indication: '-' indicates negative polarity.
- Overrange Indication: Display 'OL'.
- Sampling Time: approx. 0.4 second
- Unit showing: showing of function and electrical capacity.
- Low Battery Indication:  displayed
- Fuse Protection: FF400mA/600V
- Auto power off time: 15 min.
- Power Supply: 1.5V×2 AAA battery.
- Dimension: 208×38×29 mm
- Weight: approx. 129g(including battery)

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### 3.2 Technical Specifications

(ambient temperature: 23±5°C, relative humidity <75%)

#### 3.2.1 DC Voltage

Measuring Range	Resolution	Accuracy
200mV	0.1mV	±(0.7% reading + 2dgt)
2V	0.001V	
20V	0.01V	
200V	0.1V	
600V	1V	

Input impedance: 10MΩ

- Overload protection: 200mV range: 250V DC or AC rms  
2V-600V ranges: 600V DC or AC rms
- Max. input voltage: 600V DC

#### 3.2.2 AC Voltage

Measuring Range	Resolution	Accuracy
200mV	0.1mV	±(0.8% reading + 3dgt)
2V	0.001V	
20V	0.01V	
200V	0.1V	
600V	1V	±(1.0% reading + 3dgt)

Input impedance: 10MΩ

- Overload protection: 200mV range: 250V DC or AC rms  
2V-600V ranges: 600V DC or AC rms
- Frequency range: 40~400Hz
- Response: average (rms of sine wave)
- Max. input voltage: 600V AC rms


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### 3.2.3 Resistance

Measuring Range	Resolution	Accuracy
200Ω	0.1Ω	±(1.0% reading + 3dgt)
2kΩ	0.001kΩ	±(1.0% reading + 1dgt)
20kΩ	0.01kΩ	
200kΩ	0.1kΩ	
2MΩ	0.001MΩ	±(1.0% reading + 5dgt)
20MΩ	0.01MΩ	


- Open circuit voltage: approx. 250mV
- Overload protection: 250V DC or AC rms

### 3.2.4 Continuity

Function	Description
	If measured resistance is less than 50Ω, buzzer will sound.

- Open circuit voltage: approx. 500mV
- Overload protection: 250V DC or AC rms

### 3.2.5 Diode test

Function	Resolution	Description
	0.001V	Displays approx. forward-biased voltage

- Forward DC current: approx. 1mA
- Reverse DC voltage: approx. 1.5V
- Overload protection: 250V DC or AC rms

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### 3.2.6 DC Current

Measuring Range	Resolution	Accuracy
20mA	0.01mA	±(1.5% rdg + 3dgt)
200mA	0.1mA	


- Overload protection: resettable fuse

### 3.2.7 AC Current

Measuring Range	Resolution	Accuracy
20mA	0.01mA	±(2.0% rdg + 3dgt)
200mA	0.1mA	

- Overload protection: resettable fuse
- Frequency range: 4~200Hz
- Response: average (rms of sine wave)

### 3.2.8 Logic Test

Function	Description
Logic	

- Input impedance: 1MΩ
- Overload protection: 250V DC or AC rms