

# Calibration Certificate

*This certificate guarantee that the product has been inspected and tested in accordance with the published specifications.*

*The instrument has been calibrated by using equipment which already calibrated to standards traceable to international standards.*

Model:

Serial no.: \_\_\_\_\_

Date \_\_\_\_\_

## User's Guide

Waterproof Tester  
6021 Conductivity × 10  
6031 TDS × 10  
6061 EC

FGJ-NDT.IR  
DIGINDT.IR



CE

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## پتروفرهان گستر جنوب

### Introduction:

Thank you for selection waterproof Conductivity or TDS or EC tester. It is possible to measure a wide range of Conductivity or TDS or EC with a replaceable electrode. We recommend that you read and follow the manual carefully.

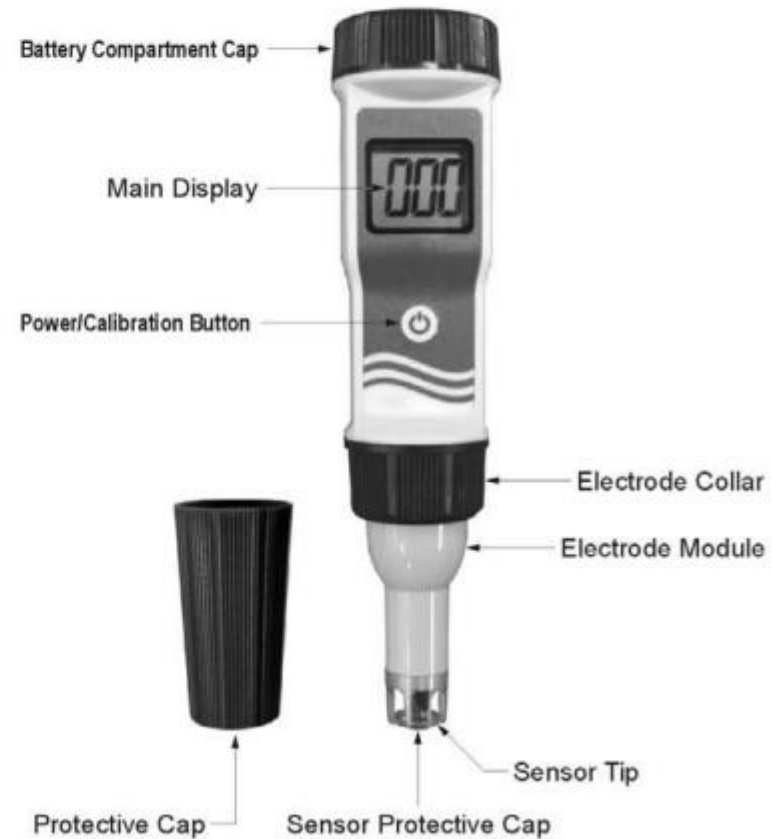
### Features:

- ✧ Fast response, reliable and accurate measurements.
- ✧ Large LCD display 21 x 18 mm for reading convenient.
- ✧ Impact resistant ABS case by waterproof designed IP 57 rated.
- ✧ 1 point manual calibration via screw trim pot.
- ✧ The electrode module are changeable for replacement by user.

### Specifications:

Model	6021	6031	6061
	Conductivity	TDS	EC
Range	0~19990 $\mu\text{S}/\text{cm}$	0~19990 ppm	0~19.99 EC
Accuracy	$\pm 1\%$ FS	$\pm 1\%$ FS	$\pm 1\%$ FS
Resolution	10 $\mu\text{S}/\text{cm}$	10 ppm	0.01 EC
ATC	Yes	Yes	Yes
Power	3V x 2 Lithium battery CR2032		
Dimensions	Meter: 33.5 x 170 mm		
Weight	Meter: 85 g (w/battery)		

### Device Description:



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### Operating procedure:

#### Accessories

Upon receiving the shipment, inspect the container and equipment for any signs of damage. Remove the packing list and verify that you have received all equipments:

**Meter, Standard solution 1413  $\mu\text{S}/\text{cm}$ (6021) or 940 ppm(6031) or 1.41 EC(6061), Battery(has been installed), Instruction manual, Gift box.**

#### Preparation

1. Remove the protection cap from meter to rinse the electrode with clean water and wipe it dry.
2. Open battery compartment to take out the screwdriver.
3. Press  button to turn the meter power on.

#### Calibration

##### < Conductivity > 6021

1. Dip the electrode into the standard solution. Stir gently and wait until the display stabilized. Adjust the reading to 141 ( $1413 \mu\text{S}/\text{cm}$ ) at  $25^\circ\text{C}$  by turning the trimmer(Span) located at left side of battery compartment with a screwdriver.
2. Calibration is ending after step 1.

##### < TDS > 6031

1. Dip the electrode into the standard solution. Stir gently and wait until the display stabilized. Adjust the reading to 94(940 ppm) at  $25^\circ\text{C}$  by turning the trimmer(Span) located at left side of battery compartment with a screwdriver.
2. Calibration is ending after step 1.

##### < EC > 6061

1. Dip the electrode into the standard solution. Stir gently and wait until the display stabilized. Adjust the reading to 1.41 at  $25^\circ\text{C}$  by turning the trimmer(Span) located at left side of battery compartment with a screwdriver.
2. Calibration is ending after step 1.

#### Measurement

##### < Conductivity > 6021

1. After calibration, rinse the electrode with clean water and wipe it dry. Dip the electrode into sample solution to be measured. Stir gently and wait until a stable reading can be obtained.
2. Read the measurement on the display. **The reading should be multiplied by a factor of 10 for Conductivity value.**
3. After measurement, rinse the electrode with clean water and replace the protective cap.

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### < TDS > 6031

1. After calibration, rinse the electrode with clean water and wipe it dry. Dip the electrode into sample solution to be measured. Stir gently and wait until a stable reading can be obtained.
2. Read the measurement on the display. **The reading should be multiplied by a factor of 10 for TDS value.**
3. After measurement, rinse the electrode with clean water and replace the protective cap.

### < EC > 6061

1. After calibration, rinse the electrode with clean water and wipe it dry. Dip the electrode into sample solution to be measured. Stir gently and wait until a stable reading can be obtained.
2. After measurement, rinse the electrode with clean water and replace the protective cap.

### Note

1. It is no need to calibrate before each usage. But it should be performed every two weeks or after 10 times of usage.
2. Don't touch or wipe the surface of inner black sensor of conductivity cell.
3. Change a new battery when the display fades or flashes.

### Maintenance:

#### Battery replacement

1. Loosen the battery compartment counterclockwise.
2. Replace the fresh Lithium battery CR2032, and note polarity.
3. Replace the battery compartment cap tightly

#### Electrode replacement

1. Unscrew the electrode collar clockwise, and remove it completely.
2. Pull the electrode module out from the tester.
3. Plug an new electrode module into the tester socket carefully.
4. Replace and tighten the electrode collar to make a good seal.

### Applications:

Agriculture • Anti-freeze recycling • Aquarium • Boiler • Chemical industry • Cooling tower • Drinking water • Fish farming • Food industry • Garden husbandry • Hydroponic • Laboratory usage • Plating industry • Swimming pool & Spa • Water treatment