

## 5. Maintenance :

- The instrument is calibrated during despatch from the works. To comply with ISO requirement, the instrument need to be calibrated periodically as per quality norms of the user company. Generally calibrations hold for about a week only.

## 6. Accessories :

- Complete Kit consisting of pH Meter, ATC Sensor, Glass pH Electrode, Electrode Stand with clip, One Bottle (200 ml) each of pH Buffers 7.0, 4.0, 10.0

## 7. Ordering Information :

Order No.	Item
Equinox-pH101AC	: Complete Kit consisting of pH Meter, ATC Sensor, Glass pH Electrode, Electrode Stand with clip, One Bottle (200 ml) each of pH Buffers 7.0, 4.0, 10.0

### Accessories :

Equinox-pH 101A	: Consists only pH meter, Electrode stand with clip
Equinox-pH 101A/01R	: ATC sensor with 1 meter cable
Equinox-pH 101A/01E	: Glass pH electrode
Equinox-pH 101A/01S	: Electrode stand with clip
Equinox-pH 101A/01D	: Low Ionic strength pH Electrode (DM water application)
Equinox-pH 101A/01EPX	: Epoxy Body pH Electrode
Equinox-pH 101A/01B	: pH 7.0 buffer Solution (200 ml)
Equinox-pH 101A/02B	: pH 4.0 Buffer Solution (200 ml)
Equinox-pH 101A/03B	: pH 10.0 Buffer Solution (200 ml)

# USER'S GUIDE

# Equinox<sup>TM</sup>

## DIGITAL TABLE TOP pH METER Model : Equinox – pH-101A



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# TABLE TOP PH METER

## MODEL: Equinox - PH 101A

### General:

- Model : Equinox-PH-101A type digital tabletop pH meter is an accurate and extremely reliable instrument with analog output of 4-20 mA. It gives a direct reading of the pH value of the solution under test. It can also read the process value in mV through the MODE selection switch on the front panel. The Instrument also has the facility to measure the temperature of the solution under test with use of an RTD Sensor, which also provides Auto Temperature Compensation.

### Technical Specifications:

Display	:	3 ½ digit red LED display
Measuring Range	:	0 to 14.00 pH
Resolution	:	0.01 pH
Accuracy	:	± 0.05 pH (without Electrode)
ATC	:	0 to 100°C
Accuracy	:	± 1°C
mV range	:	± 1000 mV
Accuracy	:	± 0.05 pH (without Electrode)
Analog output	:	4-20 mA for 0.00 to 14.00 pH
Operating Temperature	:	0 to 50°C
Power Supply	:	230V AC, 50Hz
Dimensions in mm	:	230(W) × 180 (D) × 90 (H)
Weight	:	2600 gms (only instrument)

### Operation:

#### 1. Measurement

- Connect the power mains chord on to the 3 pin socket. Provided at Back panel.
- Connect the pH Electrode on to the BNC Socket. Provided at Back panel.

- Connect the 3 pin DIN socket with the RTD pre-wired assembly on to the 3 pin socket.
- The instrument will now read directly the pH of the solution under test.

#### 2. Calibration Procedure

- Prepare 3 buffer solutions viz., 7.00 pH, 4.00 pH & 9.20 or 10.00 pH in a clean 100ml.capacity glass beaker.
- Wash the pH electrode using distilled water.
- Keep the pH electrode in the 7.00pH buffer solution and adjust the pot, marked "off set" to get 7.00 pH on the display.
- After calibrating for 7.00 pH as above, change over to buffer 4.00 pH or 9.20. Clean the electrode with distilled water & wipe off the traces with tissue paper. Keep the electrode into the new buffer solution. Adjust the pot, marked 'SLOPE' to get 4.00/9.20 reading on the display.

DO NOT DISTURB THE OFFSET POT during the adjustment.

- Repeat steps two to three times to get accurate readings on the digital display. The instrument is ready for use with the solution under test.

#### 3. Temperature Measurement

- To measure the temperature of the solution under test, the RTD sensor is to be connected through the 3 pin connector at back panel.
- Set the MODE switch to Temp. Position.
- Insert the RTD sensor to the solution under test, the instrument will display process readings.

#### 4. Guarantee:

- The instrument is warranted for a period of Two Years from the date of supply against any manufacturing defects. The repair will be carried out at our service centers by our authorized personnel only. The transportation cost will be borne by the purchaser. The WARRANTY is valid only if the product is used in accordance with the instruction provided in this manual. Please note electrodes, RTD sensors & other accessories are not covered under any warranty.