OPERATING MANUAL

FOR

ONLINE pH INDICATOR-CONTROLLER

Manufacturer & Marketed by:

NK Instruments Pvt. Ltd.

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A. INTRODUCTION

Thank you for purchasing our pH series meter. These microprocessor -based meters are economical and simple to use. The design incorporates a 7segment LED displays, offers a good & reliable measurement

B. INSTRUMENT DESCRIPTION

- A general purpose pH/Conductivity/TDS/Temperature meter for use in panel / filed / lab as per models recommended by us.
- The instrument includes Features like: automatic range selection, calibration on standard solutions or direct cell constant entry, automatic temperature compen sation

C. SAFETY

- Please read this information carefully prior to installing or using this equipment.
- The unit described in this manual is designed to be operated only by trained personnel.
- Any adjustments, maintenance and repair must be carried out as defined in this manual, by a person qualified to be aware of the hazards involved.
- It is essential that both operating and service personnel employ a safe system of work, in addition to the detailed instructions specified in this manual.
- References should always be made to the Health and Safety data supplied with any chemicals used. Generally accepted laboratory procedures for safe handling of chemicals should be employed.
- If it is suspected that safety protection has been impaired in any way, the unit mus t be made inoperative and secured against any intended operation. The fault condition should immediately be reported to the appropriate servicing authority.

D. GOOD PRACTICE GUIDELINES

- For greatest accuracy ensure no particulate matter is suspended in the solution under test. If necessary, filter or allow the particles to settle prior to use. Do not allow the cell to come into contact with any sediment which may be present.
- Ensure no air bubbles are trapped in the electrode area
- Ensure the cell plates or cell electrodes are completely immersed in the solution under test.
- Ensure no salt deposits or particulate matters are allowed to build up around the cell points or on the Probe body It is recommended that such deposits be removed by rinsing the cell in deionizer water. No attempt should be made to wipe off these deposits as this may cause damage to the cell electrodes.
- Ensure the correct reference temperature is selected for the operating procedures being used.

E Instrument Specifications:

Display: Full 4 Digit pH 14mm red LED display

pH Range: 0.00 to 14.00 pH

Buffer Options: Two Point Calibration

Zero Point: 7.00pH

Span Point: 4.0pH / 9.20pH/10.0pH

Temperature Range: 0.0°C to 100.0°C

Repeatability: ± 0.01 LSB

Accuracy: 0.01 pH + 1 count

Temperatur e Compensation: N.A.

Temperature Range: 0.0 to 1 20.0 ºC / 32.0 to 212.0 ºF

Resolution: 0.01 ºC / ºF

Accuracy: ± 0.5ºC / ± 0.9ºF

Power Supply: 220-240 VAC, 50-60 Hz

pH Meter Mounting Types

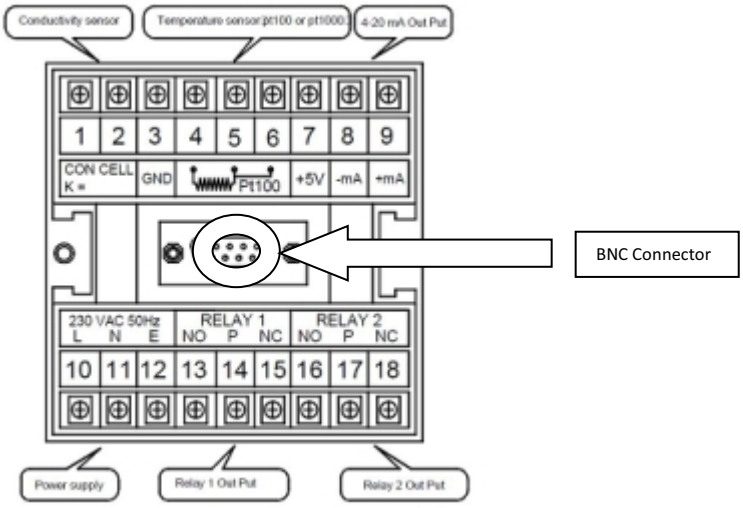
Panel Type = 96X96X85mm / Filed Type = 120X140X70 mm

Weight: 0.5 Kg

F Keys:

PROG **UP** **DOWN** **ENTER**

G. Basic Hardware Connection



1. Make the connections as per the diagram for PH sensor.
2. Connect pH sensor to BNC connector at middle of the terminal plate
3. Connect 230Volt AC 50Hz Power supply to terminal No. 10, 11 & 12 as per designation.
4. For Preamplifier +5 volt & ground is provided (if Preamplifier is used) terminal No. 3 & 7

H. Instruction Set:

A. To calibrate primary sensor press **PROG** key, Display will show move to **TEMP** Manual temperature point.

B. In this meter temperature sensor is not connected. Normally put 25.0°C & Press **PROG** key to save the Manual temperature.

C. Display will show **SPT1** & show set point, User can use **UP/DOWN** keys to set desired Set point in between **00.00** to **14.00** ph & press **PROG** key to save or to skip press **ENTER** key

D. Display will show **HS-1** & show Hysteresis point, User can use **UP/DOWN** keys to set desired hysteresis point in between **.00** to **.50** ph & press **PROG** key to save or **ENTER** key to go for calibration

E. In calibration mode display will show **PASS** & **0000** , Enter the password by pressing **UP/DOWN** key as **10** & press **PROG** key

F. Display will show **ZERO** & then **07.00** ph value, put the ph sensor in 7 ph buffer solution & press **ENTER** key.

G. Display will show **SPAN** & then **04.00** ph value, put the ph sensor in 4 ph buffer solution & press **ENTER** key.

H. Display will show the **SET?** Press **PROG** key to save setting & unit will start showing the calibrated result.

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