



# ELECTRO CHEMISTRY & WATER

## ANALYSIS INSTRUMENTS

### BENCHTOP MULTI-PARAMETER INSTRUMENTS "BLACK PEARL 17 SERIES" MODEL TP-17



INDIA'S FIRST  
ELECTROCHEMISTRY  
METER WITH

- "30 Sec" measurement
- "6 Click" Calibration
- European technology



#### TP-17

pH	-2 .... 20 pH
mV	±2000 mV
Temperature	-5 .... +105°C

- ☒ Direct Printer
- ☒ 3 Year warranty on the Instruments
- ☒ Data logging of up to 12000+ values including Temperature
- ☒ Stability Indicator
- ☒ GLP Report on LCD Screen
- ☒ White backlight for better viewing
- ☒ Robust dust & splash-proof cabinet

The leader in **pH, ORP, Temperature** measurement just got better with a completely advanced & highly sophisticated new range of Benchtop Instruments with a European collaboration for the following Parameters:

These Instruments have a list of numerous salient features which make this range incomparable & highly advanced when compared with most of the other meters available in the market & some of which are as follows

• pH • ORP • Temp.

Manufactured by:

**TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.**

P.O. Gagwana – 305023, Distt. Ajmer (Raj.) INDIA., Phone : +91-145-2971131/2/3

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BLACK PEARL TP 17

## COMMON FEATURES

### pH

Automatic calibration up to five buffers out of eleven pre-programmed pH buffers.

Reads pH with 0.01 pH resolution.

### mV

Features mV calibration for accurate ORP measurements.

Reads potentials with 1 mV resolution.

### Temperature

Reads temperatures with 0.1°C resolution.

Manual or automatic temperature compensation.

Calibrates temperature probe for quality measurements.

### Inputs

1 BNC inputs for pH, mV

1 Corresponding reference inputs.

1 Corresponding temperature inputs.

1 Voltage DC input for e.g. a mains adaptor.

### Outputs

Rs232 interface for connection to a printer

### Display

Bright LCD screen for better readability.

White backlight for better viewing.

Stability indicator prompts the user when readings should be taken.

Shows a GLP report on the LCD screen.

The interactive LCD screen provides step by step instructions in the language of your choice (English, Dutch, French, German).

### Data-logging

Storage memory for 12,000+ values including temperature

### \*Cabinet:

Robust dust and splash-proof cabinet.

### \*Special features:

Communication with a printer using RS232.

### Standard Supply

**Meter + Mains Adaptor + Electrode Stand + ATC  
+ Instruction Manual + Test Certificate +Warranty Card**

### pH

Range	-2...+20 pH
Resolution	0.01 pH
Accuracy	0.1% ± 1 Digit
Calibration	1...5 Points
Buffers	11 Pre-programmed
Temperature Compensation	-5...+105°C
ISO-PH	6...8 pH
Slope	80...120%

### mV

Range	±2000 mV
Resolution	1 mV
Accuracy	0.1% ± 1 Digit
Calibration	1 Point

### TEMPERATURE

Range	-5...+105°C
Resolution	0.1°C
Accuracy	0.3°C
Calibration	1 point

### INPUTS

pH/mV	1 BNC, 10 <sup>12</sup> Ω
Temperature	White RC Plug, for Pt1000

### CALIBRATION

Reminder	0...999 h
GLP	✓

### DISPLAY

LCD	240x64 pixels each
White Backlight	✓
Hold Function	✓
Selectable Resolution	✓
Interface with computer	✓

### RS 232

	1 port
Baud Rate	1200...115200 b/s

### DATA-LOGGING

Values	12000+ °C/date/time
Manul or Timed	✓
Interval	1...9999 s

### SECURITY

Identification number	✓
Password protection	✓

### AMBIENT CONDITIONS

Temperature	0...40°C
Humidity	0...95%, non-condensing

### POWER SUPPLY

Mains	210...250 VAC, 50/60 Hz
Low Voltage	9...15 VDC

### DIMENSIONS

WxDxH	18x13x5/3 cm
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### WEIGHT METER

	400 gm
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