



ELECTROCHEMISTRY & WATER

ANALYSIS INSTRUMENTS

BENCHTOP MULTI-PARAMETER INSTRUMENTS "BLACK PEARL 17 SERIES" MODEL TC-17



INDIA'S FIRST
ELECTROCHEMISTRY
METER WITH

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



TC-17

Conductivity	0 2000 mS/cm
Resistivity	0 200 MΩ.cm
Salinity	0 70 ppt
TDS	0 100 g/l
Temperature	-5 +105°C

The leader in **Conductivity, TDS, Salinity, Resistivity, 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

Conductivity • TDS • Salinity • Resistivity • Temp.

- ☒ 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

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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REGD. OFFICE: 401, Manish Chamber, Sonawala Cross Lane, Goregaon (E), Mumbai-400063

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BLACK PEARL TC 17

COMMON FEATURES

Conductivity

Multi-point (1...3) calibration for more linearity.

Extended

conductivity range; to measure the full range from 0.01

µS/cm to 2000 mS/cm requires 3 electrodes: 0.1, 1 and 10 cm⁻¹.

Selectable reference temperature: 20° or 25°C.

Automatic cell constant determination with any of three

preprogrammed standards (0.01, 0.1 or 1M KCL.

Temperature

Reads temperatures with 0.1°C resolution.

Manual or automatic temperature compensation.

Calibrates temperature probe for quality measurements.

Inputs

1 BNC inputs for Conductivity

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**

CONDUCTIVITY

Range	0...2000 mS/cm
Resolution	0.01 µS/cm
Accuracy	0.5% F.S. Of Range
Calibration	1...3 Point
Standards	0.01/0.1/1m KCL
	3 User Specified
Cell Constant	0.1/1/10 cm ⁻¹ ± 30%
Temperature Compensation	-5...+105°C
Reference Temperature	20° Or 25°C
Temperature Coefficient	Natural Waters (En27888)
Range Lock	✓
Capacitive Compensation	✓

RESISTIVITY

Range	0...200 MΩcm
Resolution	1 Ω.cm

SALINITY

Range	0...70 ppt
Resolution	0.1 ppt

TDS

Range	0 ... 100 g/l
Resolution	0.1 mg/l

TEMPERATURE

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

INPUTS

Conductivity	
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

Baud Rate	1200...115200 b/s
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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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