



ELECTRO CHEMISTRY & WATER

ANALYSIS INSTRUMENTS

PORTABLE MULTI-PARAMETER INSTRUMENTS "BLACK PEARL 27 SERIES" MODEL TPCD-27



INDIA'S FIRST
ELECTROCHEMISTRY
METER WITH

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



TPCD-27

pH	-2 20 pH
mV	±2000 mV
Conductivity	0 2000 mS/cm
Resistivity	0 200 mΩ/cm
Salinity	0 70 ppt
TDS	0 100g/l
Dissolved Oxygen	0 60 mg/l
	0 600%
Air Pressure	600 1300 hPa
Temperature	-5 +105°C

The leader in **pH, ORP, Conductivity, TDS, Salinity, Resistivity, Dissolved Oxygen, 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, Conductivity, TDS, Salinity, Resistivity, Dissolved Oxygen, Temp.

- ☑ Direct Printer & PC
- ☑ 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.

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

Web : www.toshcon.com

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COMMON FEATURES

pH

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

Reads pH with 0.001 pH resolution.

mV

Features mV calibration for accurate ORP measurements.

Reads potentials with 0.1 mV resolution.

Conductivity

Multi-point (1...3) calibration for more linearity. Extended conductivity range; to measure the full range from 0.001 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.

Dissolve Oxygen

Operates with a galvanic dissolved oxygen electrode requiring no polarisation time and no zero calibration. Selectable resolution from 0.01 mg/l (0.1%) to 0.1 mg/l (1%). Manual salinity compensation 0-40 ppt. Automatic air pressure compensation 600-1300 hPa. Rapid Air Calibration.

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, Conductivity, Dissolved Oxygen

1 Corresponding reference inputs.

1 Corresponding temperature inputs.

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

Outputs

USB interface for connection to a Computer

Rs232 interface for connection to a Printer or Computer

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:** Two-way communication with a printer or computer using RS232 or USB.

Standard Supply

Meter + Mains Adaptor + Electrode Stand + ATC

+ Instruction Manual + Test Certificate +Warranty Card

pH

Range -2...+20 pH

Resolution 0.001 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 0.1 mV

Accuracy 0.1% ± 1 Digit

Calibration 1 Point

CONDUCTIVITY

Range 0 2000 mS/cm

Resolution 0.001 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 ± 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 1Ω.cm

SALINITY

Range 0 70 ppt

Resolution 0.1 ppt

TDS

Range 0 100g/l

Resolution 0.01 mg/l

DISSOLVED OXYGEN

Range 060 mg (0600%)

Resolution 0.01 mg/l (0.1%)

Accuracy 1% ± 1 Digit

Calibration 1 Point

Temperature Compensation 050 °C

Salinity Compensation 0 40 ppt

AIR PRESSURE COMPENSATION

Range 600 1300 hpa

Resolution 1 Point

TEMPERATURE

Range -5 +105°C

Resolution 0.1°C

Accuracy 0.3°C

Calibration 1 point

INPUTS

pH/mV Conductivity 1 BNC, 10⁻¹² Ω

Temperature White RC Plug, for Pt1000

CALIBRATION

Reminder 0...999 h

GLP ✓

DISPLAY

LCD 240x64 pixels each

White Backlight ✓

Hold Function ✓

Selectable Resolution ✓

Real Time Clock ✓

USB 1 port

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

BATTERY RECHARGEABLE 4x1.2V, AA, NiMH

DIMENSIONS

WxDxH 25x12x5 cm

WEIGHT METER 635 gm

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