

ELECTRO CHEMISTRY & WATER

ANALYSIS INSTRUMENTS

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



- "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

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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 μ S/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 μ s/cm
Accuracy	0.5% F.S. of Range
Calibration	1 3 Point
Standards	0.01/0.1/1m KCL
Cell Constant	3 User Specified
Temperature Compensation	0.1/1/10 cm ± 30%
Reference Temperature	-5...+105°C
Temperature Coefficient	20° or 25° C
Range Lock	Natural Waters (En27888)
Capacitive Compensation	✓
RESISTIVITY	
Range	0 200 M Ω cm
Resolution	10.cm
SALINITY	
Range	0 70 ppt
Resolution	0.1 ppt
TDS	
Range	0 100g/l
Resolution	0.01 mg/l
DISSOLVED OXYGEN	
Range	0 60 mg (0 600%)
Resolution	0.01 mg/l (0.1%)
Accuracy	1% ± 1 Digit
Calibration	1 Point
Temperature Compensation	0 50 °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, $10^{12} \Omega$
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	
Interface with Computer	1 port
RS 232	
Baud Rate	1 Port
Values	12000+ °C/date/time
Manul or Timed	✓
Interval	1...9999 s
DATA-LOGGING	
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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