Toshcon®

ELECTRO CHEMISTRY & WATER

ANALYSIS INSTRUMENTS

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

INDIA'S FIRST ELECTROCHEMISTRY METER WITH
- **"30 Sec"** measurement
- **"6 Click"** Calibration
- **European** technology

TPI-27	
pH	-2 ....20 pH
mV	±2000 mV
Ion	0.01 ng/l ....100 g/l
Temperature	-5 .... +105°C

The leader in **pH, ORP, Ion, 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, Ion, 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

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.

ION

Direct concentration measurement. Ion mode is easily calibrated with

any 2...5 standards and a blank correction.

Useable with Ion Selective Electrodes like F^-, Cl^-, NO_3^-, NH_3^-, NH_4^-, Br^-, I^-, CN^-, Ca^{++} etc.

Stores calibration curves for up to 9 different electrodes.

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 and ION.

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
ION	
Range	0.01 ng/l...100 g/l
Resolution	3 digits
Accuracy	0.5% ± 1 digit
Calibration	2...5 points + blank
TEMPERATURE	
Range	-5...+105°C
Resolution	0.1°C
Accuracy	0.3°C
Calibration	1 point
INPUTS	
pH/mV	1 BNC, 10^{-12} Ω
Conductivity/ Dissolved Oxygen/Ion	
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	4 x 1.2V, AA, NiMH
DIMENSIONS	
WxDxH	25x12x5 cm
WEIGHT METER	635 gm

BLACK PEARL *TPI-27*