



ELECTROCHEMISTRY & WATER

ANALYSIS INSTRUMENTS

BENCHTOP MULTI-PARAMETER INSTRUMENTS "BLACK PEARL 37 SERIES" MODEL TPI-37



INDIA'S FIRST
ELECTROCHEMISTRY
METER WITH

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



TPI-37

pH	-220 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

Manufactured by:

TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.

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

Customer Care: +91-9829 112345 Email: info@toshcon.com / support@toshcon.com

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

Web : www.toshcon.com

BLACK PEARL TPI-37

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.

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⁻, NO₃⁻, NH₄⁺, 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
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

Interface with computer	✓
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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	26x18x10/4 cm
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WEIGHT METER

	765 gm
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