

ELECTRO CHEMISTRY & WATER

ANALYSIS INSTRUMENTS

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



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



TPI-37

| | |
|-------------|------------------------|
| 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

Manufactured by:

TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.

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

Custom 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

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⁻, NH₃, 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 | |
| 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 |
| DIMENSIONS | |
| WxDxH | 26x18x10/4 cm |
| WEIGHT METER | |
| | 765 gm |

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