



# ELECTROCHEMISTRY & WATER

## ANALYSIS INSTRUMENTS

### BENCHTOP MULTI-PARAMETER INSTRUMENTS "BLACK PEARL 37 SERIES" MODEL TD 37



INDIA'S FIRST  
ELECTROCHEMISTRY  
METER WITH

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



#### TD-37

Dissolved Oxygen	0 .... 60 mg/l 0 .... 600%
Air Pressure	600 .... 1300 hPa
Temperature	-5 .... +105°C

The leader in **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

#### 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.**

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

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

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BLACK PEARL TD-37

# COMMON FEATURES

## Dissolved 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 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**

## DISSOLVED OXYGEN

Range	0...60 mg/l (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
Calibration	1 Point

## TEMPERATURE

Range	-5...+105°C
Resolution	0.1°C
Accuracy	0.3°C
Calibration	1 point

## INPUTS

Dissolved Oxygen	1 BNC, 10 <sup>-12</sup> 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

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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