

# ELECTRO CHEMISTRY & WATER

## ANALYSIS INSTRUMENTS

### PORTABLE MULTI-PARAMETER INSTRUMENTS "BLACK PEARL 27 SERIES" MODEL TD-27



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



#### TD-27

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.**

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# 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**

<b>DISSOLVED OXYGEN</b>	0...60 mg/l (0...600%)
Range	0.01 mg/l (0.1%)
Resolution	1% ± 1 Digit
Accuracy	1 Point
Calibration	0...50°C
Temperature Compensation	0...40 ppt
Salinity Compensation	
<b>AIR PRESSURE COMPENSATION</b>	600...1300 hpa
Range	1 Point
Calibration	
<b>ION</b>	0.01 ng/l...100 g/l
Range	3 digits
Resolution	0.5% ± 1 digit
Accuracy	2...5 points + blank
Calibration	
<b>TEMPERATURE</b>	-5...+105°C
Range	0.1°C
Resolution	0.3°C
Accuracy	1 point
Calibration	
<b>INPUTS</b>	1 BNC, 10 <sup>12</sup> Ω
Dissolved Oxygen	White RC Plug, for Pt1000
Temperature	
<b>CALIBRATION</b>	0...999 h
Reminder	
GLP	✓
<b>DISPLAY</b>	
LCD	240x64 pixels each
White Backlight	✓
Hold Function	✓
Selectable Resolution	✓
Real Time Clock	✓
<b>USB</b>	1 port
Interface with computer	✓
<b>RS 232</b>	1 port
Baud Rate	1200...115200 b/s
<b>DATA-LOGGING</b>	
Values	12000+ °C/date/time
Manual or Timed	✓
Interval	1...9999 s
<b>SECURITY</b>	
Identification number	✓
Password protection	✓
<b>AMBIENT CONDITIONS</b>	
Temperature	0...40°C
Humidity	0...95%, non-condensing
<b>POWER SUPPLY</b>	
Mains	210...250 VAC, 50/60 Hz
Low Voltage	9...15 VDC
<b>BATTERY RECHARGEABLE</b>	4 x 1.2V, AA, NiMH
<b>DIMENSIONS</b>	
WxDxH	25x12x5 cm
<b>WEIGHT METER</b>	635 gm

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