

**BENCHTOP  
MULTI-PARAMETER INSTRUMENTS "7 SERIES"  
MODEL TP 7, TC 7, TD 7, TPC 7 & TPCD 7**

• pH • ORP • Conductivity • TDS • Salinity • Dissolved Oxygen • Temperature



**TP 7**

pH	0 .... 14 pH
ORP	±1000 mV
Temperature	0 .... 100°C

**TC 7**

Conductivity	0 .... 1000 mS/cm
TDS	0 .... 100 g/l
Salinity	0 .... 70 ppt
Temperature	0 .... 100°C

**TD 7**

Dissolved Oxygen	0 ... 20 mg/l
Temperature	0 ... 200%
	0 .... 100°C

**TPC 7**

pH	0 .... 14 pH
ORP	±1000 mV
Conductivity	0 .... 1000 mS/cm
TDS	0 .... 100 g/l
Salinity	0 .... 70 ppt
Temperature	0 .... 100°C

**TPCD 7**

pH	0 .... 14 pH
ORP	±1000 mV
Conductivity	0 .... 1000 mS/cm
TDS	0 .... 100 g/l
Salinity	0 .... 70 ppt
Dissolved Oxygen	0 ... 20 mg/l
Temperature	0 ... 200%
	0 .... 100°C

The leaders in pH, ORP & Conductivity measurement just got better with a complete Advanced & highly sophisticated new range of **Benchtop** Instrument with a **European collaboration** for following parameters:

- pH • ORP • Conductivity • TDS • Salinity
- Dissolved Oxygen • Air Pressure • Temperature

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:

- 2 year Warranty on the Instruments
- Automatic Switch-Off
- Data logging of up to 300 values including Temperature
- Stability Indicator
- GLP Report on LCD Screen
- Blue backlight for better viewing
- Robust dust & splash-proof cabinet

**TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.,**

An ISO 9001:2015 Company

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# BENCHTOP MULTI-PARAMETER INSTRUMENTS "7 SERIES" MODEL TP 7, TC 7, TD 7, TPC 7 & TPCD 7

## COMMON FEATURES:

- \* **pH** (in TP 7, TPC 7 & TPCD 7)\*  
Automatic calibration with one up to three buffers out of nine pre-programmed pH buffers.  
Reads pH with 0.01 pH resolution.
- \* **mV** (in TP 7, TPC 7 & TPCD 7)\*  
Features mV calibration for accurate ORP measurements.  
Reads potentials with 1 mV resolution.
- \* **Conductivity** (in TC 7, TPC 7 & TPCD 7)\*  
Extended conductivity range; to measure the full range from 0.01  $\mu\text{S}/\text{cm}$  to 1000  $\text{mS}/\text{cm}$  requires 3 electrodes: 0.1, 1 and  $10\text{cm}^{-1}$ .  
Selectable reference temperature: 20° or 25°C.  
Automatically selects correct range and frequency.  
Automatic cell constant determination with any of three preprogrammed standards (0.01, 0.1 or 1M KCl).
- \* **Dissolved oxygen** (only in TD 7 & TPCD 7)\*  
Operates with a galvanic oxygen electrode requiring no polarisation time and no zero calibration.  
Reads dissolved oxygen with 0.01 mg/l or 0.1% resolution.  
Rapid air calibration.  
Manual salinity compensation 0-40 ppt.  
Manual air pressure compensation 800-1200 hPa.
- \* **Temperature** (in TP 7, TC 7, TD 7, TPC 7 & TPCD 7)\*  
Reads temperatures with 0.1°C resolution.  
Manual or automatic temperature compensation.  
Calibrates temperature probe for quality measurements.
- \* **Inputs**  
One common input for pH and mV.  
One common input for conductivity & dissolved oxygen.  
One input for a Pt1000 automatic temperature probe.  
Low voltage DC input for a mains adaptor.
- \* **Display**  
Bright LCD screen for better readability.  
Blue 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 300 values including temperature.
- \* **Cabinet:** Robust dust and splash-proof cabinet.
- \* **Special features**  
Mains operation with programmable automatic switch-off.

**Standard Supply: Meter + Mains Adaptor + Fixed Electrode Stand + Instruction Manual + Test Certificate + Warranty Card**

### Specifications for TP 7, TC 7, TD 7, TPC 7 & TPCD 7 with difference marked in Blue coloured text in bracket & \*s

<b>pH</b> (in TP 7, TPC 7, & TPCD 7)*	Range	0...14 pH
	Resolution	0.01 pH
	Accuracy	0.2% $\pm$ 1 digit
	Calibration	1...3 points
	Buffers	11 pre-programmed
	Temperature Compensation	0...100°C
	ISO-pH	6...8 pH
<b>mV</b> (in TP 7, TPC 7, & TPCD 7)*	Slope	80...120% $\pm$ 1000 mV
	Range	1 mV
	Resolution	0.2% $\pm$ 1 digit
	Accuracy	1 point
	Calibration	0...1000 mS/cm
	Range	0.01 $\mu\text{S}/\text{cm}$
	Resolution	1% f.s. of range
<b>CONDUCTIVITY</b> (in TC 7, TPC 7 & TPCD 7)*	Calibration	1 point
	Standards	0.01/0.1/1M KCl
	Cell Constant	0.1/1/10 $\text{cm}^{-1} \pm 30\%$
	Temperature Compensation	0...100°C
	Reference Temperature	20°C or 25°C
	Temperature Coefficient	natural waters (EN27888)
	Range	0...70 ppt
<b>SALINITY</b> (in TC 7, TPC 7 & TPCD 7)*	Resolution	0.1 ppt
	Resolution	0.1 mg/l
<b>TDS</b> (in TC 7, TPC 7 & TPCD 7)*	Range	0...100 g/l
	Resolution	0.1 mg/l
<b>DISSOLVED OXYGEN</b> (Only in TD 7 & TPCD 7)*	Range	0...20mg/l (0...200%)
	Resolution	0.01 mg/l (0.1%)
	Accuracy	1% $\pm$ 1 digit
	Calibration	1 point
	Temperature Compensation	0...50°C
	Salinity Compensation	0...40 ppt
	Air Pressure Compensation	800...1200 hPa
<b>TEMPERATURE</b> (in TP 7, TC 7, TD 7 TPC 7 & TPCD 7)*	Range	0...100°C
	Resolution	0.1°C
	Accuracy	0.5°C
	Calibration	1 point
	Calibration	BNC, $10^{12}\Omega$
<b>INPUTS</b>	pH/mV	BNC
	Conductivity/Dissolved O <sub>2</sub>	BNC
<b>DATA-LOGGING</b>	Temperature	2 banana, for Pt1000
	Memory	300 values + temp.
	LCD	122x32 pixels
<b>DISPLAY</b>	Blue Backlight	✓
	Temperature	0...40°C
<b>AMBIENT CONDITIONS</b>	Humidity	0...95%, non-condensing
	Mains	210...250VAC, 50/60Hz
<b>POWER SUPPLY</b>	Low Voltage	9...12 VDC
	WxDxH	157.5x198.9x100.1/35.8
<b>DIMENSIONS (in mm)</b>	Meter	600 g
<b>WEIGHT</b>		

**For more details kindly contact:**

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