

PORTABLE/ BENCHTOP MULTI-PARAMETER INSTRUMENTS MODEL TP 7, TC 7, TD 7, TPC 7 & TPCD 7

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



TP 7

pH	0 ... 14 pH
mV	±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 0 ... 200%
Temperature	0 ... 100°C

TPC 7

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

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

• pH • mV • 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:

- CE Certified Instruments
- 2 year Warranty on the Instruments
- Most Instruments are Battery cum Mains operated
- Automatic Switch-Off
- Data logging of up to 300 values including Temperature
- Stability Indicator
- GLP Report on LCD Screen
- A white backlight automatically illuminates when operated on the mains.
- Robust dust & splash-proof cabinet
- Shows percentage of remaining battery capacity

TOSHWIWA INSTRUMENTS MANUFACTURING PVT. LTD.,

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PORTABLE/ BENCHTOP MULTI-PARAMETER INSTRUMENTS 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 mS/cm requires 3 electrodes: 0.1, 1 and 10 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.
A white backlight automatically illuminates when operated on the mains.
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 and rechargeable battery operation with programmable automatic switch-off.
Optional 12V car adaptor.

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

pH (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
mV (in TP 7, TPC 7, & TPCD 7)*	ISO-pH	6...8 pH
	Slope	80...120%
	Range	\pm 1000 mV
	Resolution	1 mV
CONDUCTIVITY (in TC 7, TPC 7 & TPCD 7)*	Accuracy	0.2% \pm 1 digit
	Calibration	1 point
	Range	0...1000 mS/cm
	Resolution	0.01 $\mu\text{S}/\text{cm}$
	Accuracy	1% f.s. of range
	Calibration	1 point
DISSOLVED OXYGEN (Only in TPCD 7)*	Standards	0.01/0.1/1M KCl
	Cell Constant	0.1/1/10 cm^{-1} \pm 30%
	Temperature Compensation	0...100°C
	Reference Temperature	20°C or 25°C
	Temperature Coefficient	natural waters (EN27888)
	Resolution	0.1 ppt
SALINITY (in TC 7, TPC 7 & TPCD 7)*	Range	0...70 ppt
	Resolution	0.1 ppt
TDS (in TC 7, TPC 7 & TPCD 7)*	Range	0...100 g/l
	Resolution	0.1 mg/l
TEMPERATURE (in TP 7, TC 7, TD 7 TPC 7 & TPCD 7)*	DISSOLVED OXYGEN	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
	Range	0...100°C
	Resolution	0.1°C
	Accuracy	0.5°C
	Calibration	1 point
	Resolution	0.1°C
INPUTS	pH/mV	BNC, 10 ⁶ Ω
	Conductivity/Dissolved O ₂	BNC
	Temperature	2 banana, for Pt1000
DATA-LOGGING	Memory	300 values + temp.
	LCD	122x32 pixels
DISPLAY	White Backlight	✓
	Resolution	122x32 pixels
AMBIENT CONDITIONS	Temperature	0...40°C
	Humidity	0...95% non-condensing
POWER SUPPLY	Mains	210...250VAC, 50/60Hz
	Low Voltage	9...15 VDC
	Batteries	4x1.5 V, AA
DIMENSIONS	WxDxH	10x20x4 cm
WEIGHT	Meter	400 g

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