

BENCHTOP

MULTI-PARAMETER INSTRUMENTS "17 SERIES" MODEL TP 17, TC 17 & TPC 17

•pH •ORP •Conductivity •TDS •Salinity •Resistivity •Temp.



TP 17

TC 17

pH	-220 pH
ORP	±2000 mV
Temperature	-5 105°C

Conductivity	0 2000 mS/cm
TDS	0 100 g/l
Salinity	0 70 ppt
Resistivity	0 200 MΩ cm
Temperature	-5 105°C

TPC 17

рН	-220 pH
ORP	±2000 mV
Conductivity	0 2000 mS/cm
TDS	0 100 g/l
Salinity	0 70 ppt
Resistivity	$0 \dots 200 \ \text{M}\Omega$ cm
Temperature	-5 105°C

COMMON FEATURES:

pH (in TP 17 & TPC 17)*

Multi-point (1...5) calibration for more linearity. Selectable resolution from 0.01pH to 0.1 pH. Automatic calibration with any of eleven pre-programmed and five user specified pH buffers. pH electrodes with any zero point (Eo) between ±999 mV.

mV

Features mV calibration for accurate ORP measurements. Selectable resolution from 0.1 mV to 1 mV.

• Conductivity (in TC 17 & TPC 17)*

Multi-point (1...3) calibration for more linearity. Extended conductivity range; to measure the full range from 0.01 µS/cm to 2000 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 KCI). Allows to lock the initial conductivity range to avoid non-

linear titration curves.

Accurate low conductivity measurements by eliminating

the capacitive component of the electrode and its cable (avoid the use of long cables!).

Temperature

Reads temperatures with 0.1°C resolution.

Manual or automatic temperature compensation.

Calibrates temperature probe for quality measurements.

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MULTI-PARAMETER INSTRUMENTS "17 SERIES" MODEL TP 17, TC 17 & TPC 17

Inputs

One common input for all ranges + corresponding reference input.

Reference input for special applications.

Separate input for a Pt1000 automatic temperature probe. Low voltage DC input for e.g. a mains adaptor.

Outputs

RS232 interface for connection to a printer.

All procedures for a Good Laboratory Practice are on board.

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.

Hold function allows to freeze the display for convenient reading or recording.

The interactive LCD screen provides step by step instructions in the language of your choice (English, Dutch, French, German).

Real-time clock displays time and date.

Shows a GLP report on the LCD screen.

Data-logging

Stores up to 12000 data sets can be stored manually or at a programmable interval.

Robust dust and splash-proof cabinet.

Special features

Calibration reminder 0...999 h.

Programmable identification number for use with a computer.

Password protection prevents any unauthorised access to the instrument.

Communication with a printer using RS232.

Mains operation with programmable automatic switch-off.

Standard Supply: Meter + Mains Adaptor + Instruction Manual + Test Certificate + Warranty Card + ATC

Essential & Optional Accessories including Electrodes on Order

Specifications for TP 17, TC 17 & TPC 17 with difference marked in Blue coloured text in bracket & *'s

	Danas	2 120 mll
pH (in TP 17 & TPC 17)*	Range Resolution	-2+20 pH 0.01 pH
(III II & IFO II)	Accuracy	0.1% ± 1 digit
	Calibration	15 points
	Buffers	11 pre-programmed
	Dullers	5 user specified
	Temperature Compensation	
	ISO-pH	68 pH
	Slope	80120%
	Zero Point (Eo)	±999 mV
mV	Range	± 2000 mV
IIIV	Resolution	1 mV
	Accuracy	0.1% ± 1 digit
	Calibration	1 point
CONDUCTIVITY	Range	02000 mS/cm
(in TC 17 & TPC 17)*	Resolution	02000 ms/cm
(III TO 17 & TEC 17)	Accuracy	1% f.s. of range
	Calibration	13 points
	Standards	0.01/0.1/1M KCI
	Call Canatant	3 user specified
	Cell Constant	0.1/1/10 cm ⁻¹ ± 30% -5+105°C
	Temperature Compensation Reference Temperature	20°C or 25°C
	Temperature Coefficient	natural waters (EN27888 √
	Range Lock	∨
	Capacitive Compensation	
RESISTIVITY	Range	0200 MΩ.cm
	Resolution	1 Ω.cm
SALINITY	Range	070 ppt
	Resolution	0.1 ppt
TDS	Range	0100 g/l
	Resolution	0.1 mg/l
TEMPERATURE	Range	-5+105°C
	Resolution	0.1°C
	Accuracy	0.3°C
INDITED	Calibration	1 point
INPUTS	Measurement	1 BNC, 10 ¹² Ω
	Temperature	2 banana, for Pt1000
		or NTC 30 KΩ
CALIBRATION	Reminder	0999 h
	GLP	
DISPLAY	LCD	240x64 pixels
	White Backlight	<u> </u>
	Hold Function	
	Selectable Resolution	<u> </u>
	Real Time Clock	<u> </u>
USB	Interface with Printer	✓
RS232	Baud Rate	1200115200 b/s
DATA-LOGGING	Values	12000 + °C/date/time
	Modes	all (9)
	Manual or Timed	· · · · · · · · · · · · · · · · · · ·
	Interval	19999 s
SECURITY	Identification number	√
	Password protection	✓
AMBIENT	Temperature	040°C
CONDITIONS	Humidity	095%,non-condensing
POWER SUPPLY	Mains	210250VAC, 50/60Hz
	Low Voltage	915 VDC
	WxDxH	18x13x5/3 cm
DIMENSIONS WEIGHT	Meter	400 gms

For more details kindly contact: