

### **BENCHTOP**

# **MULTI-PARAMETER INSTRUMENTS "17 SERIES"**

MODEL TP 17, TC 17 & TPC 17

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



### <u>TP 17</u>

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

### **TC 17**

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

### <u>TPC 17</u>

рН	-220 pH
ORP	±2000 mV
Conductivity	0 2000 mS/cm
TDS	0 100 g/l
Salinity	0 70 ppt
Resistivity	0 200 MΩ 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<sup>-1</sup>. 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 nonlinear 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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## **BENCHTOP**

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

•Inputs One common input for all ranges + corresponding	Specifications for TP 17, TC 17 & TPC 17 with difference marked inBlue coloured text in bracket & *'s		
	рH	Panga	-2+20 pH
reference input.		Range	
Reference input for special applications.	(in TP 17 & TPC 17)*	Resolution	0.01 pH
		Accuracy	0.1% ± 1 digit
Separate input for a Pt1000 automatic temperature probe.		Calibration	15 points
Low voltage DC input for e.g. a mains adaptor.		Buffers	11 pre-programmed
Low voltage Do input for c.g. a mains adaptor.			5 user specified
		Temperature Compensation	5 ±105°C
Quitputo			
•Outputs		ISO-pH	ю8 рн
RS232 interface for connection to a printer.		Slope	80120%
		Zero Point (Eo)	±999 mV
	mV	Range	± 2000 mV
•GLP		Resolution	1 mV
All procedures for a Good Laboratory Practice are on		Accuracy	0 1% + 1 digit
board.		Calibration	
	CONDUCTIVITY	Range	
	(in TC 17 & TPC 17)*	Resolution	
•Display		Accuracy	1% f.s. of range
		Calibration	13 points
Bright LCD screen for better readability.		Standards	0.01/0 1/1M KCI
A white backlight automatically illuminates when operated			3 user specified
on the mains.		Cell Constant	0.1/1/10 cm ± 30%
Stability indicator prompts the user when readings should		Temperature Compensation	-5+105°C
be taken.			20°C or 25°C
		Temperature Coefficient	natural waters (EN27888)
Hold function allows to freeze the display for convenient		Range Lock	√
reading or recording.		Capacitive Compensation	✓
	RESISTIVITY		0 200 MO am
The interactive LCD screen provides step by step	RESISTIVITY	Range	0200 MΩ.cm
instructions in the language of your choice (English, Dutch,			<u>1 Ω.cm</u>
	SALINITY	Range	070 ppt
French, German).		Resolution	0.1 ppt
Real-time clock displays time and date.	TDS	Range	0100 g/l
Shows a GLP report on the LCD screen.		Resolution	0.1 mg/l
	TEMPERATURE		-5+105°C
	TENIFERATURE	Range	-5+105 C
		Resolution	0.1°C
Data-logging		Accuracy	0.3°C
Stores up to 12000 data sets can be stored manually or at		Calibration	1 point
	INPUTS	Measurement	1 BNC, 10 <sup>12</sup> Ω
a programmable interval.		Temperature	2 banana, for Pt1000
			or NTC 30 KΩ
Cabinet	CALIBRATION		0999 h
Robust dust and splash-proof cabinet.		GLP	✓
Robust dust and splash-proof cabinet.	DISPLAY	LCD	240x64 pixels
		White Backlight	$\checkmark$
•Special features		Hold Function	<b>√</b>
		Selectable Resolution	$\checkmark$
Calibration reminder 0999 h.			
Programmable identification number for use with a		Real Time Clock	
	USB	Interface with Printer	✓
computer.	RS232	Baud Rate	1200…115200 b/s
Password protection prevents any unauthorised access to	DATA-LOGGING	Values	12000 + °C/date/time
		Modes	all (9)
the instrument.		Manual or Timed	/
Communication with a printer using RS232.		Intonyal	1 0000 0
	SECUDITY	Identification number	1
Mains operation with programmable automatic switch-off.	SECURITY	Identification number	×
		Password protection	040°C
	AMBIENT	Temperature	040°C
	CONDITIONS	Humidity	095%,non-condensing
Ctondard Cumply, Motor J. Maine Adapton J. Instantic	POWER SUPPLY	Mains	210250VAC, 50/60Hz
Standard Supply: Meter + Mains Adaptor + Instruction		Low Voltage	915 VDC
			0
	DIMENSIONS	WyDyH	$18 \times 13 \times 5/3$ cm
Manual + Test Certificate + Warranty Card + ATC Essential & Optional Accessories including Electrodes on Ord		WxDxH Meter	18x13x5/3 cm 400 gms

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