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## SPECIFICATIONS

### DOCUMENT #W71



TruLab pH 1110

#### Parameters:

pH  
mV (ORP/Redox)  
Temperature

### YSI TruLab pH 1110 Laboratory Benchtop Meter

Single channel meter for measurement of pH or mV (ORP)

The TruLab® pH 1110 benchtop meter is the ideal laboratory instrument for basic, routine measurements in the lab. The pH 1110 is an accurate, easy-to-use solution for repeatable pH or mV measurements in the laboratory.

**Repeatable/Efficient** - the instrument's AutoRead function indicates when a stable measurement is reached improving repeatability.

**Convenient/Reliable** - an adjustable timer indicates when to perform the next calibration routine, improving measurement accuracy.

- Single channel measurement of pH or mV (ORP) and temperature.
- AutoRead function improves repeatability
- Easy-to-read large, segmented display for pH, mV (ORP) and temperature
- Easy calibration with adjustable calibration timer
- Automatic or manual temperature compensation
- 1, 2 or 3-point calibration
- BNC connection for pH, mV; 2 banana connections - 1 for external temperature sensor, 1 for external reference if using a half cell
- 3-year warranty
- Wide selection of electrodes - pH, ORP and temperature probes

### TruLab Electrodes

TruLine - single-junction pH electrodes or ORP electrodes. Choice of epoxy or glass body, with temperature compensation or without, flat glass, piercing tip, and refillable or non-refillable.

Science - robust, double-junction pH electrodes available with temperature compensation, with ground or platinum junction.

IoLine - triple-junction pH electrodes with Iodine/Iodide reference for specialized applications, refillable with temperature compensation.



## TruLab pH 1110 Instrument Specifications

	Range	Resolutions	Accuracy ( $\pm 1$ digit)
pH	-2.0 to 20.0; -2.00 to 20.00; -2.000 to 19.999	0.1; 0.01; 0.001	$\pm 0.1$ ; $\pm 0.01$ ; $\pm 0.005$ (temp of test sample 15 to 35°C; within a range of $\pm 2$ pH of the calibration point)
mV	-1200 to 1200.0; -2000 to 2000	0.1; 1.0	$\pm 0.3$ ; $\pm 1.0$ (temp of test sample 15 to 35°C)
Temperature	-5 to 105°C (23.0 to 221°F)	0.1	$\pm 0.1$

## TruLab pH 1110 Additional Specifications

Power Supply	4 alkaline AA batteries (~2500 hours); universal power supply; compatible with 4 NiMH AA rechargeables*
Manual Temperature Input	-25 to 130°C (-13 to 266°F) in increments of 1
Calibration	1, 2, or 3 point
Storage	-25 to 65°C (-13 to 149°F)
Weight	1.0 kg (2.2 lbs)
Dimensions	230 L x 190 W x 80 H mm (9.0 L x 7.5 W x 3.2 H in)
Certifications	CE, cETLus; electrical protective class III; IP43
Warranty	3 years

## Ordering Information

1AA120Y	TruLab pH 1110 pH/mV benchtop meter with BNC single channel input. Includes universal power supply, stand, manual, software and USB cable.
400350	TruLine pH15; pH electrode with temperature, single-junction, 3 in 1, refillable, glass shaft with 1-m cable, BNC connector, 1 banana plug, NTC 30 kOhm. Dimensions = 120 mm length; 12 mm OD
400351	TruLine pH 17; pH electrode no temperature, single-junction, combination, refillable, glass shaft with 1-m cable, BNC connector. Dimensions = 120 mm length; 12 mm OD
400352	TruLine pH 26; pH electrode with temperature, single-junction, 3 in 1, gel electrolyte, epoxy shaft with 1-m cable, BNC connector, 1 banana plug, NTC 30 kOhm. Dimensions = 120 mm length; 12 mm OD
400353	TruLine pH 25; pH electrode no temperature, single-junction, combination, gel electrolyte, epoxy shaft with 1-m cable, BNC connector. Dimensions = 120 mm length; 12 mm OD
400354	TruLine pH 27; pH electrode no temperature, single-junction, combination, flat glass membrane for surface measurements, glass shaft with 1-m cable, BNC connector. Dimensions = 120 mm length; 12 mm OD
400355	TruLine ORP 50; ORP electrode no temperature, single-junction, refillable, glass shaft with 1-m cable, BNC connector. Dimensions = 120 mm length; 12 mm OD
400356	TruLine ORP 51; ORP electrode no temperature, single-junction, gel electrolyte, epoxy shaft with 1-m cable, BNC connector. Dimensions = 120 mm length; 12 mm OD
400357	TruLine pH 21; pH electrode no temperature, single-junction, combination, spear tip membrane, epoxy shaft with 1-m cable, BNC connector. Dimensions = tapered to spear tip
400358	IoLine - 3 in 1; pH electrode with temperature, triple-junction, Iodine/Iodide reference, 3 in 1, refillable, glass shaft with 1-m cable, BNC connector, 1 banana plug, NTC 30 kOhm. Dimensions = 120 mm length; 12 mm OD
400359	IoLine Micro - 3 in 1; pH electrode with temperature, triple-junction, Iodine/Iodide reference, 3 in 1, refillable, Micro electrode, glass shaft with 1-m cable, BNC connector, 1 banana plug, NTC 30 kOhm. Dimensions = 200 mm overall length (tapered); 12 mm OD to 6 mm OD (tapered)
400360	Science pH-T-Pt; pH electrode with temperature, double-junction, Platinum junction, 3 in 1, glass shaft with 1-m cable, BNC connector, 1 banana plug, NTC 30 kOhm. Dimensions = 170 mm length; 12 mm OD
400361	Science pH-T-G; pH electrode with temperature, double-junction, 3 in 1, ground joint junction, glass shaft with 1-m cable, BNC connector, 1 banana plug, NTC 30 kOhm. Dimensions = 170 mm length; 12 mm OD
400362	Science pH-T-Micro; pH electrode with temperature, double-junction, 3 in 1, Platinum junction, Micro electrode, glass shaft with 1-m cable, BNC connector, 1 banana plug, NTC 30 kOhm. Dimensions = 200 mm overall length (tapered); 12 mm OD to 5 mm OD (tapered)
400363	ScienceLine Temp 135; temperature sensor, stainless steel, 1 banana plug, NTC 30 kOhm. Dimensions = 120 mm length; 4 mm OD
400364	ScienceLine Temp 136; temperature sensor, glass, 1 banana plug, NTC 30 kOhm. Dimensions = 120 mm length; 6 mm OD

\*Instrument will not charge the rechargeable batteries

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