3 Specifications and Environmental Conditions

3.1 Specifications

The following table lists the specifications for this instrument. Accuracy specifications are applicable for a one-year calibration interval. In line with normal prudent metrology practices, Hart Scientific recommends a short-cycle interval of six months for new units during the first year.

Power	115 VAC (±10%), 50/60 Hz, 1000 Watts (optional 230 VAC [±10%], 50/60 Hz)
Ambient Temperature	5–50°C(40–120°F)
Operating Range	35–600°C (95–1112°F)
Resolution	0.01°C or °F resolution
Accuracy‡	±0.1°C at 100°C, ±0.15°C at 300°C, ±0.5°C at 600°C (7A=23±5°C)
Uniformity	up to ±0.05°C using similar type probes
Control Stability Peak to Peak	±0.02°C to 300°C, ±0.05°C to 600°C (typical 30 minutes)
Control Stability 2σ	0.02°C to 300°C, 0.05°C to 600°C
Test Well	1.45" dia. x 6" deep
Size	12.5" H x 8" W x 10.5" D (318 x 203 x 267 mm)
Weight	25 lb. (11.4 kg)
Safety	OVER VOLTAGE (Installation) CATEGORY II, Pollution Degree 2 per IEC1010-1
Heating Time to Max	30 minutes†
Cooling Time	2.5 hours from 600°C to 100°C
Controller	Hybrid analog/digital controller with data retention
Heater	1000 W, solid state relay switched
Cooling	2 speed internal fan
Fault Protection	Sensor burnout protection, over temperature thermal cut-out, electrical fuse (10 A 115 VAC [±10%], 5A 230 VAC [±10%])
Computer Interface	RS-232 interface included with Model 9930 Interface-*it* for Windows® control software
Display	LED, °C or °F, user selectable

†Heating and cooling times may be affected by line voltage and ambient temperatures.
‡Using a single 5626-12 at the bottom of the well.