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,

A short-cycle interval of six months is recommended for new instruments during the first year.

Table 2 *Specifications*

Range	50°C to 400°C (122°F to 752°F) at 25°C (77°F)
Accuracy	±0.2°C (0.36°F) to 300°C; ±0.3°C (0.54°F) at 400°C
Stability	±0.02°C (0.036°F) to 300°C; ±0.05°C (0.09°F) at 400°C
Well to Well Uniformity (calibration wells)	±0.05°C (0.09°F)
Transfer calibration accuracy of thermocouples with inserts to IRTD probe (Excluding reference probe uncertainty)	±0.1°C from 50°C to 150°C ±0.125°C from 150°C to 400°C
Well Depth	6.1" (155 mm)
Heating Time	5 minutes: 25°C to 100°C; 25 minutes: 25°C to 350°C
Cooling Time	85 minutes: 350°C to 50°C; 45 minutes: 125°C to 50°C
Test Wells	Two 6.7 mm (0.265") dia., eight 9 mm (0.354") dia.
Standard Calibration Well Inserts	Eight removable Accomodates up to three 22 guage thermocouples
Resolution	0.01°
Display	LED, °C or °F, user selectable
Size	13.5" H x 7.8" W x 12.5" D (343 x 198 x 317 mm)
Weight	30 lb. (13.6 kg)
Power	115 VAC (±10%), 10 A, 50/60 Hz, 230 VAC (±10%), 5 A, 50/60 Hz, 700 watts
Operating Range	5–50°C (41–122°F)
Controller	Hybrid analog/digital controller with data retention