SECONDARY STANDARD PRTs Models 5626 and 5628

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Secondary Standard PRTs — Models 5626 and 5628

- Range to 661°C
- Meets all ITS-90 requirements for resistance ratios
- R_{TPW} drift < 20mK after 500 hours at 661°C

Hart's high-temp secondary standards fill the gap between affordable, but temperature-limited secondary PRTs and more expensive, highly accurate SPRTs.

If you're using block calibrators, furnaces, or temperature points above normal PRT temperatures (420°C), then these two PRTs are for you. The 5626 is nominally 100Ω and the 5628 is nominally 25.5Ω. Both instruments have a temperature range of –200°C to 661°C. They make great working or check standards for calibration work up to the aluminum point.

Using a regular PRT at temperatures above 500°C exposes the platinum to contamination. If the PRT is used as a reference or calibration standard, contamination is a major problem. SPRTs, which are more expensive and delicate, can handle the higher temperatures, but with greater risk to the instrument due to shock, contamination, or mishandling. The 5626 and 5628 are designed to reduce the contamination risk through the use of internal protection while not impairing performance.

In addition to the right measurement performance and durability, a PRT for secondary applications should be priced affordably. Hart's new PRTs are inexpensive and come with an accredited calibration. The calibration comes complete with ITS-90 constants and a resistance-versus-temperature table.

Check the temperature range, check the stability, check the price! Who else gives you this much quality, performance, and value for your money? No one!

Specifications

Temperature Range	–200°C to 661°C
Handle Temp.	0°C to 80°C
R_{TPW}	**5626:** 100Ω (±1Ω) **5628:** 25.5Ω (±0.5Ω)
W(Ga)	≥ 1.11807
Calibration Uncertainty (k=2)	±0.006°C at –200°C ±0.004°C at 0°C ±0.009°C at 420°C ±0.014°C at 661°C
Stability	**5626:** ±0.003°C **5628:** ±0.002°C
Long-Term Drift	**5626:** < 0.03°C/500 hours at 661°C **5628:** < 0.02°C/500 hours at 661°C
Immersion	At least 5" recommended
Sheath	Inconel™ 600
Lead Wires	4-wire Super-Flex PVC, 22 AGW
Termination	Gold-plated spade lugs, or specify
Size	0.25" dia. x 12" or 15" standard, custom lengths available

Ordering Information

5626-12-X	High-temp PRT, 100Ω, 12"
5626-15-X	High-temp PRT, 100Ω, 15"
5628-12-X	High-temp PRT, 25.5Ω, 12"
5628-15-X	High-temp PRT, 25.5Ω, 15"
2601	Spare Case, 12" PRT
2602	Spare Case, 15" PRT

Case included with purchase of Model 5626 or 5628 PRT.
X = termination. Specify "B" (bare wire), "D" (5-pin DIN for Tweener Thermometers), "G" (gold pins), "I" (INFO-CON for 1521 or 1522 Handheld Thermometers), "J" (banana plugs), "L" (mini spade lugs), "M" (mini banana plugs), or "S" (spade lugs).

See page 18 for triple point of water cells.