

# SECONDARY STANDARD PRTs

# Models 5626 and 5628



Secondary Standard PRTs	Models 5626 and 5628
Range to 660°C	
Meets all ITS-90 requirements for resistance ratios	
$R_{TPW}$ drift < 20mK after 500 hours at 660°C	

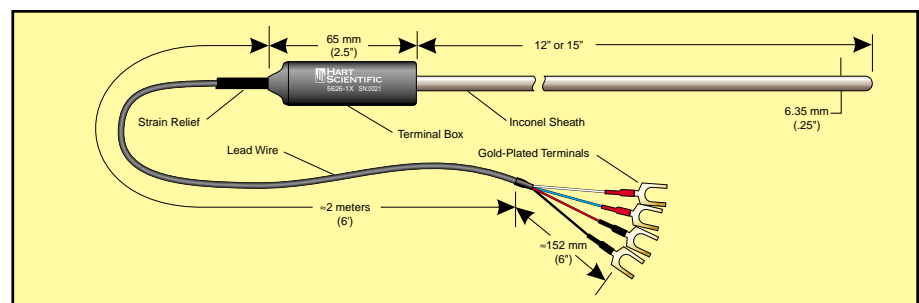
Hart's new high-temp secondary standards fill the gap between affordable but temperature-limited secondary PRTs and more expensive, highly accurate SPRTs.

If you're using block calibrators, furnaces, or temperature points above normal secondary RTD 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 660°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 a calibration included. The calibration comes complete with ITS-90 constants and a resistance vs. 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
$R_{TPW}$	<b>5626:</b> 100Ω (±1Ω) <b>5628:</b> 25.5Ω (±0.5Ω)
W(Ga)	≥ 1.11807
Calibration Uncertainty	±0.015°C at 661°C
Stability	<b>5626:</b> ±0.003°C <b>5628:</b> ±0.002°C
Long-Term Drift	<b>5626:</b> ≤ 0.03°C/500 hours at 661°C <b>5628:</b> ≤ 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
Size	0.25" dia. x 12" or 15" standard, custom lengths available

### Ordering Information

- 5626-12-X 661°C 100Ω PRT 12"
- 5626-15-X 661°C 100Ω PRT 15"
- 5628-12-X 661°C 25.5Ω PRT 12"
- 5628-15-X 661°C 25.5Ω PRT 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), "S" (spade lugs), "D" (5-pin DIN for Tweener Thermometer), or "I" (INFO-CON for 1521 or 1522 Handheld Thermometer).

Probes