Secondary Standard PRTs

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

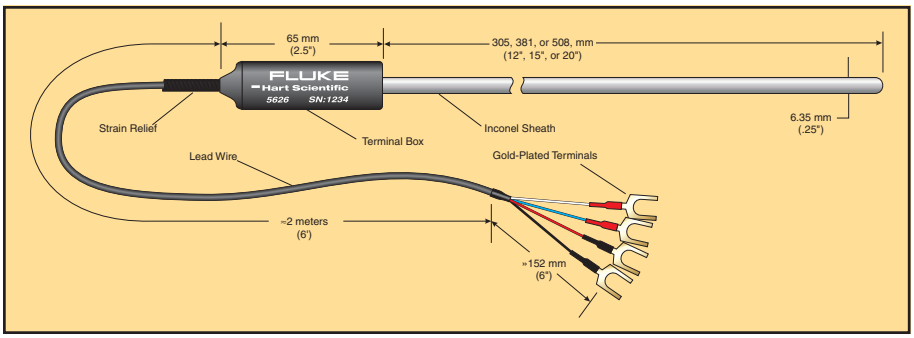
Hart's high-temp secondary standards fill the gap between affordable, but temperature-limited secondary PRTs and more expensive, highly accurate SPRTs.

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 12.7 cm (5 in) recommended
Sheath	Inconel™ 600
Lead Wires	4-wire Super-Flex PVC, 22 AGW
Termination	Gold-plated spade lugs, or specify
Size	6.35 mm dia. x 305 mm, 381 mm, or 508 mm (0.25 x 12, 15, or 20 in) standard, custom lengths available
Calibration	Accreditated calibration from Fluke Hart Scientific

Ordering Information

5626-12-X	High-temp PRT, 100Ω, 305 mm (12 in)
5626-15-X	High-temp PRT, 100Ω, 381 mm (15 in)
5626-20-X	High-temp PRT, 100Ω, 508 mm (20 in)
5628-12-X	High-temp PRT, 25.5Ω, 305 mm (12 in)
5628-15-X	High-temp PRT, 25.5Ω, 381 mm (15 in)
5628-20-X	High-temp PRT, 25.5Ω, 508 mm (20 in)
2609	Spare Case

Appropriate case included with purchase of 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).

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Fluke:

5626-15-A 5626-15-B 5626-15-D 5626-15-G 5626-15-J 5626-15-L 5626-15-M 5626-15-P 5626-15-S