

# SMART PLATINUM RTD PROBES

# Models 5690 and 5691



Smart Probes from Kaye Instruments combine the sensor and readout in one integrated package that cuts in half the sources of system error and transmits temperature data directly to your PC.

Smart Probes operate from  $-183^{\circ}\text{C}$  to  $420^{\circ}\text{C}$  with up to  $0.01^{\circ}\text{C}$  accuracy.

Smart Probes lower your operating costs in four ways. No readout is required, your annual calibration costs are lower, and you can use as many Smart Probes as the job requires (up to 99) without additional hardware, which often costs more than the probes. Further,

all software is built-in, so temperature monitoring can be easily automated.

Each Smart Probe is self-contained. Its software is stored in non-volatile EEPROM memory. Calibration coefficients, filtering constants, and the probe address all go with you when you need to take it out of the lab.

Measure against any temperature scale; IPTS-48, IPTS-68, and ITS-90 are all contained in memory. Changing scales takes only a couple of software commands and less than a minute.

Each Smart Probe is shipped with software for PC-compatible computers. Simply load the software and use the menu to select the function you need. This easy-to-use software gives you data plots and precision measurements within minutes of unpacking your smart probe.



Get the latest product information at [www.hartscientific.com](http://www.hartscientific.com)

## Specifications

Temperature Range	$-200^{\circ}\text{C}$ to $420^{\circ}\text{C}$
Accuracy Over Range	<b>5690:</b> $\pm 0.010^{\circ}\text{C}$ <b>5691:</b> $\pm 0.025^{\circ}\text{C}$
Resolution	$0.001^{\circ}\text{C}$
Sensor Element	4-wire platinum, 99.999%
Sheath	Inconel
Dimensions	Overall length, 23.75"; Grip, 5.75" x 1.25"; Probe, 18" x 0.25"

## Ordering Information

5690 Smart Probe,  $0.01^{\circ}\text{C}$

5691 Smart Probe,  $0.025^{\circ}\text{C}$

Each probe includes software, 1 cable, 1 expander, 1 converter, 1 port adapter, 1 AC adapter, carrying case, and NIST-traceable calibration.

5303-002 Cable, 25 feet

5303-003 Expander

5303-007 Converter

5303-008 Port Adapter, 9 pins to 25 pins

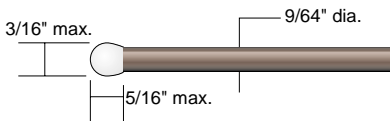
5303-009 AC Adapter

Probes

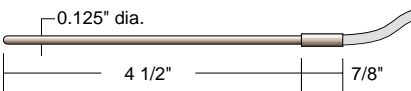
# SERIES 400 THERMISTORS

# Models 5671-5674

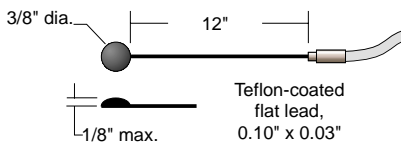
**5671** Accuracy:  $\pm 0.2^{\circ}\text{C}$ ,  $0-75^{\circ}\text{C}$



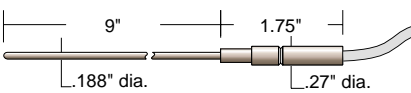
**5672** Accuracy:  $\pm 0.2^{\circ}\text{C}$ ,  $0-75^{\circ}\text{C}$



**5673** Accuracy:  $\pm 0.2^{\circ}\text{C}$ ,  $0-75^{\circ}\text{C}$



**5674** Accuracy:  $\pm 0.05^{\circ}\text{C}$ ,  $0-70^{\circ}\text{C}$



YSI's Series 400 Thermistors are the perfect complement to Hart's new 1521 and 1522 Handheld Thermometers. Like the 1521 and 1522, they're inexpensive, accurate, and easy to use.

Four models are available to match a wide variety of applications. The 5671 General Purpose Probe, 5672 Immersion Probe, and 5673 Surface Probe are each accurate to  $\pm 0.2^{\circ}\text{C}$  from  $0^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ .

The 5674 High Accuracy Probe is accurate to  $\pm 0.05^{\circ}\text{C}$  from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ .

Each comes with an INFO-CON connector (unless otherwise specified) and can be used interchangeably with Hart's Handheld Thermometers without any programming of the meter.

Each Series 400 Thermistor is tested by YSI for compliance with the interchangeability tolerance level for that particular probe, and a certificate of traceability is included (without data).

Optionally, a two-point system calibration can be ordered from Hart for your thermistor and 1521/1522 combination (see Model 1929-5 on page 158).

## Ordering Information

5671-I Series 400 Thermistor, General

5672-I Series 400 Thermistor, Immersion

5673-I Series 400 Thermistor, Surface

5674-I Series 400 Thermistor, High Accuracy

2601 Protective Case

1929-5 System Cal Report, Thermistors (see page 158)

I = INFO-CON termination. Replace "I" with "B" (bare wire), "S" (spade lugs), or "D" (5-pin DIN for Tweener Thermometer) for other termination options.