

New Temperature Probes From Shortridge Instruments, Inc.

The new ADT446 and ADT447 TemProbes respond to temperature changes more quickly than the ADT442. The faster response time has been gained by reducing the thermal mass of the new TemProbes. The stainless steel probe shafts are thinner and shorter than that of the ADT442, and more subject to being bent or broken if mishandled. All three probes use the same type of thermistor, so they can be used with any model of AirData or HydroData Multimeter. The ADT446 TemProbe may be used in both air and water, and its smaller profile makes it easier to insert into PT plugs. The ADT447 TemProbe is for air applications only.

ADT442 (Standard)



ADT446 (New Design)



ADT447 (New Design)



	ADT442	ADT446	ADT447
Price (US list)	\$ 95.00	\$ 125.00	\$ 125.00
Application	Air/Water	Air/Water	Air Only
Range	-67 to 250/ F	-20 to 180/ F	-20 to 180/ F
Accuracy	± 0.5/ F from 32 to 158/ F	± 0.5/ F from 32 to 158/ F	± 1.0/ F from 32 to 120/ F
Transition Time: *			
Air at 100 fpm	120 seconds	30 seconds	20 seconds
Air at 1000 fpm	50 seconds	15 seconds	10 seconds

*All transition times are approximate. The transition time is defined as the time required for an AirData or HydroData Multimeter to register 90 percent of an applied temperature differential. For example, if the meter has a steady-state reading of 75/ F in an office area, and is suddenly placed in 55/ F duct air, the applied temperature difference is 20/ F. Ninety percent of 20 is 18, so the transition time is the time it takes the meter reading to display 57/ F (75 – 18).

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