

Standard Probes & Assemblies

“AQUASENSE” WATER TEMPERATURE SENSOR

Features:

- Easy mounting design
- Fast response and excellent thermal tracking
- Molded shell for cost effective design
- Compatible with most pool/spa control systems
- Simplifies installation and change out of sensor
- Operating temperature range: -20°C to +100°C

Options:

- Cable lengths and styles
- Connectors and terminations
- Sensor accuracies and value
- Stainless steel housing for potable water environments

Description:

ATP has developed a remarkable new product for sensing water temperature in pool/spa applications.

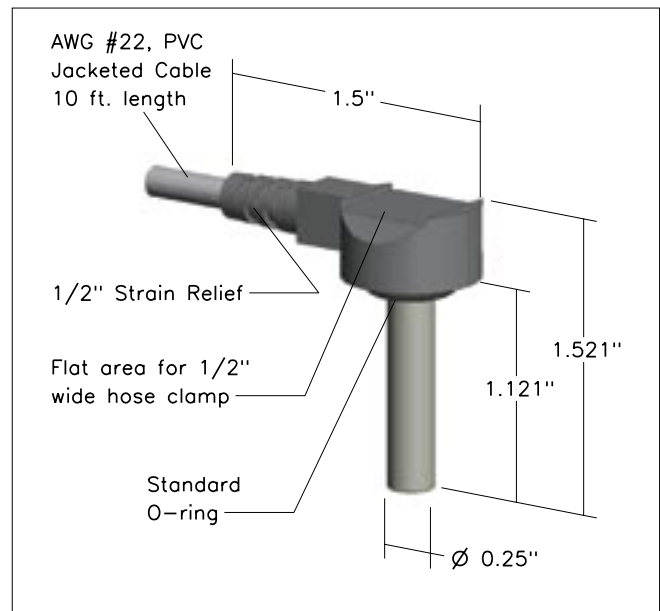
The new “AquaSense” design is ideal for applications that require ease of installation and a fast thermal response time in a rugged, low-cost package. While the standard list of parts is based on thermistor sensing elements, the design can easily be adapted to RTDs and other temperature sensing technologies.

To install the AquaSense assembly, simply drill a 1/4” hole into the PVC piping, insert the probe, then use a standard 1/2” wide hose clamp to seal the o-ring onto the PVC pipe. While traditional designs have used a variety of methods for attaching the sensor to the outside wall of the plastic pipe, ATP’s AquaSense utilizes a molded plastic housing in direct contact with the water flow to ensure a fast, accurate temperature reading that is not possible with external sensors.

The AquaSense assembly is compatible with most of the major pool/spa control systems on the market today and comes standard with 10ft. of PVC jacketed cable, and with the o-ring installed and ready for use. A wide variety of options are available including sensor type, cable length and terminations.



“Aquasense” Water Thermistor Sensor



Ordering Information

ATP Part Number	R ₂₅ (Ω)	Material Curve
D5003MW22P0	5,000	Z
D1004MW22P0	10,000	Z
D3004MW22P0	30,000	Z

Standard resistance tolerance is ±2% at 25°C.

Resistance versus temperature information for material curve Z can be found on page 57.