Non-contact Temperature Measurement

Instrumentation

Non-contact Temperature Measurement

Air/Water Cooled Sensing Head

The Air/Water-Cooled Housing option allows the laser or standard sensor to be used in ambient temperatures up to 250°F (121°C) with air cooling, or 350°F (177°C) with water cooling. It is supplied with two 1/8” NPT brass fittings.

Air flow at 77°F (25°C) should be 3 to 5 cfm (1.4 to 2.4 liters/sec) with a pressure drop across the housing of 2 to 5 PSIG (0.14 to 0.35 kg/cm²). Water flow should be approximately 0.5 gallons (2 liters) per minute; water temperature should be 50 to 80°F (10 to 27°C) for efficient cooling.

All units ordered with the Air/Water-Cooled Housing include the Air Purge Collar to avoid condensation and lens damage.

Note: The laser-equipped standard sensing head is 125 mm (4.92”) long. The laser shuts off automatically at 120°F (50°C).

Standard / Laser Sensing Heads

All Standard sensors are supplied with a fixed bracket and a mounting nut. Alternatively, the sensor may be mounted through a hole, on a customer-supplied bracket, with the pipe adapter, or with other accessories. Avoid installing the sensor cable in noisy electrical environments. In this environment, it is recommended to install the cable in conduit. A conduit adapter accessory is available for this purpose.

Note: The laser-equipped standard sensing head is 125 mm (4.92”) long.