Operation the Laser Sight Accessory
The Laser sight accessory screws onto the front of the transmitter sensor head. This accessory is only used for alignment of the transmitter head to the target area. After the alignment process, the accessory has to be removed from the front of the transmitter head before temperature measurement is made.
Using This Quick Start Manual
Use this Quick Start Manual with your OS136A Series Miniature Infrared Transmitter for quick installation and basic operation. For detailed information, refer to the User’s Guide (Manual # M3946).

General Information
The model OS136A series is a very low-cost, super-compact infrared transmitter. It measures temperature via non-contact, and provides an analog output proportional to the measured temperature. The OS136A series is offered in two temperature ranges: -18 to 204°C (0 to 400°F) and 149 to 538°C (300 to 1000°F). The analog output is offered as 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc, 10 mV/Degree C or F, or K type thermocouple.

The unit has a fixed Emissivity of 0.95 which makes it easy to measure temperature, requiring no adjustments during installation and use. The super-compact design, 19 mm OD x 78 mm Length (0.75” OD x 3.5” L) is ideal to measure temperature via non-contact, and provides an output load is within the product specification.

It takes a certain amount of time for the sensor head to get stabilized to the new ambient temperature. For example, it takes about 30 minutes for the transmitter to stabilize from 25°C to 50°C ambient temperature.

Ambient Temperature
The transmitter can operate in an ambient temperature of 0 to 70°C (32 to 158°F) without any water cool jacket. It can operate from 0 to 200°C (32 to 392°F) with the water cool jacket accessory, OS136-WC. It can operate up to 110°C (230°F) with air cooling.

There is a warm up period of 1 to 2 minutes after power up. After the warm up period, temperature measurement can be made.

When the ambient temperature around the transmitter changes abruptly, the sensor head goes through a thermal shock. It takes a certain amount of time for