Busbar Temperature Monitoring: Safety, Reliability, Lower Costs

Power distribution systems in offshore marine installations typically include high voltage, metal-clad switchgear; low voltage switchgear; cast resin transformers; and panel boards. Early detection of heat-related faults and failures can prevent power outages, loss of operation, and even fire or explosions. Busbar Temperature

Application Note

Temperature Errors Due to Transmission Losses

An infrared brightness thermometer determines an object's temperature by quantitatively measuring its radiance. It is important that the instrument have a constant and predictable view of its target. But radiation is lost in the "transmission path" between the emitting surface and the detector. If this loss is significant, the brightness thermometer detects less radiation than it should and indicates too low a temperature. Here's how to avoid transmission errors and compensate for loss. Technical App Notes

Case Study

How to Accurately Measure the Temperature of Rolled Products of Varying Sizes

A customer was making stainless steel rods. Temperature measurement at each of the reducing sections of the mill is critical to achieve product size and metallurgy. But these rods varied in diameter and position, making it impossible to keep a sensor accurately targeted. Rolled Steel

Frequently Asked Questions

How Does Infrared Work?

Infrared radiation is part of the electromagnetic spectrum, which includes radio waves, microwaves, visible light, ultraviolet, gamma and X-rays. Any object emits energy somewhere within that range. IR thermometers capture the invisible infrared energy naturally emitted from all objects warmer than absolute zero (0 degrees Kelvin). Find out more about Infrared.
**Modline® 7 Series Infrared Thermometers**

The Ircon® Modline 7 infrared thermometers are designed for continuous temperature monitoring in industrial process control applications. With extended temperature ranges, high resolution optics and fast response times, these rugged pyrometers feature an IP65 (NEMA 4) enclosure, standard motorized focus control, as well as through-the-lens and laser sighting. [Modline 7](#)

**ScanIR®3 Infrared Linescanner and Thermal Imaging System**

The Ircon® ScanIR3 linescanner provides accurate, real-time thermal imaging in industrial applications. With one of the fastest scan speeds in the industry (150 lines per second), the system offers complete data about even the highest-speed manufacturing processes. Unlike point sensors that measure a single point, the linescanner measures multiple temperature points across a scan line. [ScanIR3](#)