

FLUKE®

Process
Instruments

**TEMPERATURE
measurement solutions
for the TRANSMISSION,
DISTRIBUTION, and
POWER industries.**



See the Fluke Process
Instruments solution for
**CRITICAL ASSET
MONITORING**



In today's age, keeping the power distribution grid up and running is essential in maintaining our day-to-day lives. But as renewable energy sources like wind and solar make headlines for their significant progress in cost reduction, traditional power utility companies are facing increased pressure to provide low-cost energy. This, paired with aging infrastructure, is putting additional stress on power generation facilities—which, if critical equipment fails, can ultimately disrupt power supplied to the grid.

Now more than ever, power facilities must implement sound solutions to help identify possible equipment failures, perform preventative maintenance, keep repair and replacement costs under control, ensure that power is supplied to the grid without interruption, and more.

Throughout the years, handheld, portable thermal cameras served as the go-to tool in identifying hot spots and potential failure areas in electrical distribution systems, but they are often used intermittently. However, facilities that implement continuous monitoring of critical equipment and assets—such as transformers, bushings, and capacitor banks—can instantly identify risky areas and take corrective action before an unexpected failure occurs.

Keeping the lights on and the power distribution grid running are critical to maintaining our modern way of life. Everything depends on the power grid; from our food and water supply, to the factories, networks, security systems, and banking industries that we all rely on every day to keep our world on track. No aspect of our modern societies can function without power.

However, power utility companies are facing increasing pressures. Aging infrastructure and increasing demand for low-cost energy are putting more stress on the power grid, increasing the risks of costly and potentially devastating brownouts and blackouts. At this critical time, utilities need solid solutions to help increase capabilities, maintain reliability, while at the same time, keeping costs under control.



Monitoring **CRITICAL ASSETS** for abnormal conditions

Transformer bushings for overheat or underheat conditions



Temperature Uniformity

Ensure uniform temperatures across transformer bushings 24/7



Hot Spot Detection

Continuously monitor contact points, switches, and other critical assets where hot spot conditions may occur



Real-Time Data

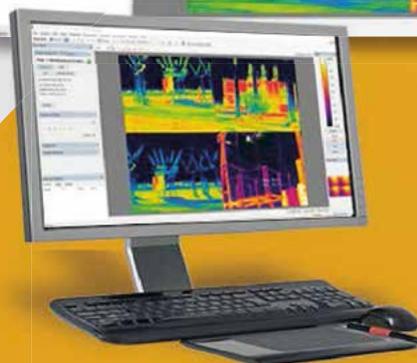
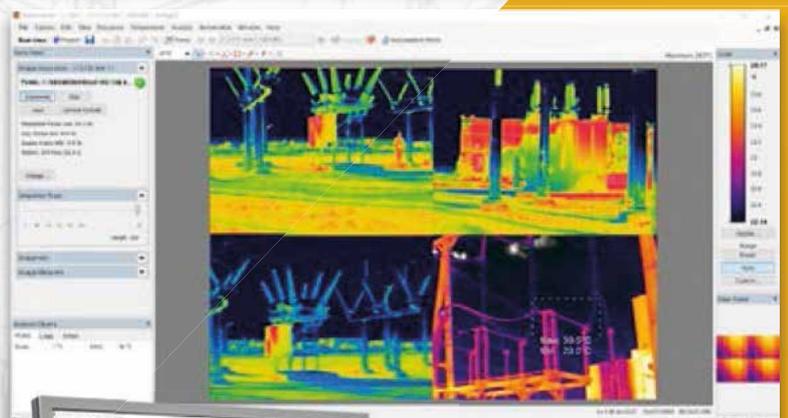
Observe your equipment and analyze data in real-time with customizable areas of interest; independent, continuous, or intermittent evaluation; and more.



CRITICAL ASSET MONITORING system

The system is designed for remote monitoring of industrial environments—such as substation monitoring, where critical assets need to be monitored. The Fluke Process Instruments' solution is built off the TV40 series Thermal imaging camera with integrated thermal and visual sighting capability.

The ThermoView Critical Asset Monitoring software provides a fully integrated thermal analysis of large areas where fixed multiple cameras or a single pan and tilt camera is needed. The software not only controls the pan and tilt system, but also provides advanced alarming on changing temperatures over a historical time period, or differential temperatures between two discrete areas. Alarm output can be mapped to discrete I/O modules or output over a Modbus or Ethernet/IP network.



PAN and TILT

With IP66 housing, the Pan and Tilt was designed to protect your thermal imager from dust and water, even in the harshest manufacturing environments. The Pan and Tilt housing accessory also features our ThermoView Critical Asset Monitoring Software, which is the ideal solution for sophisticated analysis based on absolute, differential, or rate of change asset temperature conditions.



OUTDOOR Enclosure

With an IP66 rating, our outdoor enclosure for the ThermoView TV40 ensures that your temperature monitoring system won't stop due to bad conditions. With weatherproofed installations, the Outdoor Enclosure provides a high protection rate, a sunshield, and a temperature-controlled heater for cooler environments.

Fluke Process Instruments

Americas

Everett, WA USA
Tel: +1 800 227 8074 (USA and Canada, only)
+1 425 446 6300
solutions@flukeprocessinstruments.com

EMEA

Berlin, Germany
Tel: +49 30 4 78 00 80
info@flukeprocessinstruments.de

China

Beijing, China
Tel: +8610 6438 4691
info@flukeprocessinstruments.cn

Japan

Tokyo, Japan
Tel: +81 03 6714 3114
info@flukeprocessinstruments.jp

Asia East and South

India Tel: +91 22 6249 5028
Singapore Tel: +65 6799 5578
sales.asia@flukeprocessinstruments.com

Worldwide Service

Fluke Process Instruments offers services, including repair and calibration. For more information, contact your local office.

Web:

www.flukeprocessinstruments.com

Find us on social media:



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4/2020 6012823b-en

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