ArresterFacts are information modules pertaining to the arrester industry.

How to use of an Infrared Thermometer to Field Test an Arrester

Anyone interested in commenting on this module is welcome to do so. Send comments to Jonathan Woodworth at jwoodworth@arresterworks.com
Infrared Thermography

Two Types Available

1. **Infrared Imaging**
The output of the equipment is an image that shows temperatures of all points on the screen.

2. **Infrared Thermometer**
The output of the equipment is a simple temperature of one point where the device is pointed.
Infrared Thermometer

Using an Infrared Thermometer

Since only one point on an arrester is measured at a time, the user must simply scan up and down the arrester and watch the output.

Can be done from 10-50ft away
Infrared Thermometer

What Temps to Expect

Arresters generally operate at ambient temperatures. If any spot on the arrester is 10C above the other, and similar nearby arresters are all at ambient then consider this a candidate for removal.
Infrared Thermometer

Test 2 or 3 of the same style

For best results, scan 2 or 3 units of similar style and vintage.

Arresters as low as 3kV can be accurately scanned using this method.
Infrared Thermometer

There is one negative consideration with this method

The arrester must be energized for a short time before the temperature will increase.

This test is ineffective on a de-energized arrester.
There are several methods for effectively measuring the quality of an arrester in the field.

However using a Infrared Thermometer is

**Fast**

**Cost Effective**

**and Safe**

And it only runs on two 1.5V batteries
Thank you for using ArresterFacts

This ArresterFacts is just one of many that make up the ArresterFacts Tutorial Series on Arresters.

All ArresterFacts are Copyrighted.

If you use any part of this presentation for training material, please give ArresterWorks proper reference.

Thank you for using ArresterWorks as your source of information on Arresters.

Jon Woodworth