
What happens when I run a probe care sequence?

These tests / burn off functions are available in both the carbon and dew point controllers.

Probe Impedance Test

The probe impedance test is performed by measuring the open circuit voltage of the probe, applying a known shunt resistor, and measuring the shunted value. The impedance is then calculated.

<u>Sequence #</u>	<u>Description</u>
1	Inhibit process variable calculations and control calculations. Hold output power at last value. Freeze alarms at last state. Store present millivolt reading Apply shunt resistor across probe
2	Wait for impedance test timer, fixed time of 30 seconds
3	Compute impedance of probe and remove shunt resistor
4	Wait for probe to recover to $\geq 99\%$ of original millivolts. Maximum wait time for recovery is set by operator. Store recovery time (or max value)
5	If burn off is to be performed then go to first step of burn off sequence, otherwise wait 30 seconds.
6	Resume normal operation of all instrument functions.

Probe Burn Off

A probe burn off cycle consists of pumping a high flow of reference air into the probe to cause the accumulated carbon to ignite and burn off.

<u>Sequence #</u>	<u>Description</u>
1	Turn on the output contact to start probe burn-off.
2	Wait for probe burn-off timer, value set by operator. Record probe temperature and millivolts at end of burn-off time.
3	Turn off output contact to end burn-off
4	Wait for probe to recover to $\geq 99\%$ of original millivolts Maximum wait time for recovery is set by operator. Record recovery time (or max value).
5	Wait 30 seconds.
6	Resume normal operation of all instrument functions.