

Oxygen Probe Simulator & Tester



New

Troubleshoot problems with your probe and control system

Assess the probe's usability and performance

Verify controller's input performance

Eliminate unneeded replacement of non-defective probes

OVERVIEW

Probe Buddy™ is a smart testing device that checks the integrity and health of an oxygen probe from United Process Controls and from other manufacturers. It's also used to imitate the output signals of a working probe to check the scaling and operation of the process control system.

TECHNICAL DATA

Power:	9V Battery
Operating Temperature	5-55°C (41-131°F)
Storage Temperature	-20-70°C (-4-158°F)
Dimensions	16.2 x 8.3 x 2.6 cm (6.37" x 3.25" x 1.03")
Weight	1.04 kg (2.3 lb)
Available Processes	Oxygen, Dewpoint, Carbon
Thermocouples	B, K, R, S
Millivolt Range	0-2000mV

FEATURES AND BENEFITS

- Hand-held device operates as a probe test meter and a probe signal simulator
- Enables non-expert to perform probe troubleshooting procedures like an expert
- Accepts selectable TC and mV inputs from any oxygen probe
- Outputs selectable TC and mV signals to simulate an oxygen probe
- Performs a probe impedance test when connected to a probe
- Computes carbon, dewpoint or oxygen in input or output mode
- Specific probe connection cables available, no hard wiring required
- Easy access connections

WORKING MODES

INPUT MODE

In this mode, Probe Buddy tests the outputs of a probe in a working furnace to verify the continuity and performance of the probe. Signals from the probe are converted to a user-selected process value for a quick check of what is expected by the control system.



Display of calculated oxygen for thermocouple and millivolt input signals

OUTPUT MODE

Probe Buddy is used in Output Mode to check the operation of the control system. It also shows the process value expected for the manually entered output signals. Signal ramping for temperature, millivolts, or both is available to check the dynamic scaling and response of the system.



Status of carbon ramping is shown.

PROBE TEST MODE

In Probe Test mode, Probe Buddy calculates impedance to determine the overall condition of the probe in service. By tracking probe impedance over a period of time, this information can enable one to accurately evaluate the life expectancy of the probe and establish a replacement schedule in order to eliminate unplanned downtime.



Actual recovery time of impedance test is shown. If greater than maximum setting, alarm will display.

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