

Gold Probes

Super Systems oxygen probes deliver **precision measurements** and **repeatability** in a variety of atmosphere processes.

Patented sheath / electrode design facilitates probe burnout, promoting **longer life**.

SSi's Gold Probe can be rebuilt one time after the initial warranty period expires. Both new and rebuilt probes carry a **twelve (12) month warranty**.

CERAGOLD

"Ceragold" - high temperature / high carbon solution reduces green rot and sooting, resulting in superior performance.

Sensor Applications

- Carbon Potential
- Oxygen
- Dew Point
- Millivolts



Model	Insertion Length	P/N NO T/C	P/N "K" T/C	P/N "S" T/C	P/N "R" T/C
GP133	14.3" (364mm)	11130 00	11139 00	11138 00	11131 00
GP205	20.5" (520mm)	16010 00	16019 00	16018 00	16011 00
GP277	27.7" (704mm)	16020 00	16029 00	16028 00	16021 00
GP330	33.0" (838mm)	16040 00	16049 00	16048 00	16041 00
GP373	36.8" (935mm)	16090 00	16099 00	16098 00	16091 00
GP420	42.0" (1067mm)	16090 42	16099 42	16098 42	16091 42
GP480	48.0" (1219mm)	16090 48	16099 48	16098 48	16091 48
BAZOOKA	See Manual	-	17139 00	17138 00	17131 00

The GOLDPROBE is a zirconia oxygen sensor used for atmosphere measurements which include **non-oxidizing**, reducing, neutral and carburizing processes.

BAZOOKA Probe... designed for endothermic generators

- Heated by the combustion system - approximately 1550 °F (843 °C)
- Endo gas, after it has been cooled, is plumbed to the Bazooka for measurement
- The output from the Bazooka probe is connected to the controller
- Trim air/gas is introduced after the carburetor and before the mixing pump
- Sidewall mounting allows for easy installation & maintenance while the generator is operational
- 12-Month warranty - can be rebuilt
- Direct replacement for "re-heat well" probes

Process variable range: 0-100 °F Dew Point (-18 to 45 °C)

Temperature range: 1350 to 1700 °F (732 - 926 °C)

Probe impedance: Less than 10 K ohms @1700 °F

Probe output: 0 to 1250 mVdc

Response time: Less than 1 second



Control Systems



Model 1500

Atmosphere control system
 Integral reference air and burnout air system
 Designed for endothermic generator or furnace applications
 Electrical drawings provided for easy customer installation
 Typically in stock - Ready for delivery

Model 2500

NFPA compliant atmosphere & temperature control system
 FM-approved Hi-Limit control
 Integral reference air and burnout air system
 Designed for endothermic generator or furnace applications
 Electrical drawings provided for easy customer installation
 Typically in stock - Ready for delivery



Self-Heated Oxygen Probe

There are certain applications where an in situ probe is impractical. For those situations, Super Systems Inc., recommends the HP2000 self-heated oxygen probe.

The probe uses an extracted, continuous sample of the atmosphere stream versus a standard in situ oxygen probe.

The configuration below shows the typical interconnection of the components making up an entire system.



Furnace or Generator Atmosphere



Applications:

- Multi-tube generators
- Rotary retort furnaces
- Muffle type furnaces
- Shaker furnaces
- Low-temperature applications
- Sintering applications



Description

Part Number

HP2000	13019
SSi Ceragold Gold Probe	11138 00
Model 1500 Atmosphere Control System (Reference Air & Burnout Air)	31051
Optional Pump	37177
HP15 / HP 25 - Heated Probe Control System	13456



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