

## Full Extractive Probe, Model PRO3000

Modular, external probe for wet or dry-basis measurement



### Key Features

- NEMA 4X Fiberglass enclosure for protection from harsh stack environments
- Low maintenance, reusable ceramic filter
- Versatile design for a wide range of applications
- Complies with US EPA requirements as defined in 40CFR Part 60

The Thermo Scientific Model PRO3000 probe utilizes full extractive technology for wet or dry-basis measurement.

The PRO3000 full extractive probe assembly extracts the sample through a heated probe barrel and filters out sub-micron particles using the heated filter. Periodic blowbacks keep the filter clean and operating properly. The probe is designed so no tools are required to change the filter element.

The temperature of the probe barrel and filter may be controlled by either an optional PRO3000 controller or the iMEGA CEMS probe controller.

Housed in a NEMA 4X enclosure to protect from harsh environments, This probe is highly durable and easily mountable to the stack or duct.

The PRO3000 probe assembly includes a full extractive probe, a heated probe barrel, a purge valve, a check valve and an insulated enclosure.

This probe passes calibration gas through the filter element in compliance with US EPA requirements as defined in 40CFR Part 75 and 40CFR Part 60 for continuous emissions monitoring using extractive technology.

Typical applications include:

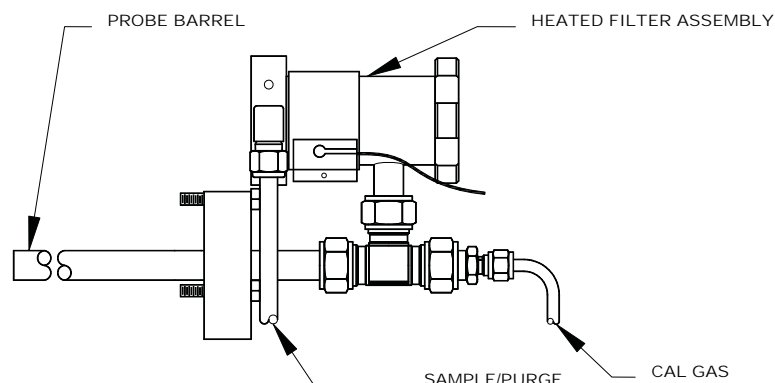
- Utility boilers
- Pulp and paper mills
- Waste to energy facilities
- Incinerators
- Turbines
- Refineries
- Petrochemical
- Cogeneration facilities

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product lifecycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

## Product Specifications

<b>Power Requirements</b>	120VAC, 310 Watts or 240VAC, 1310 Watts with heated probe barrel
<b>Ambient Operating Temperature Range</b>	-4 °F to +122°F (-20°C to +50°C)
<b>Maximum Process Temperature</b>	1,112 °F (600 °C)
<b>Instrument Air Required for Purge</b>	Clean Dry Air at -40°F (-40°C) dew point, 60 PSI minimum
<b>Size and Weight</b>	17" (43.2cm) W x 19" (48.3cm) H x 10.5" (26.7cm) D, 39lbs (17.7 kgs) 52.5lbs. (23.8 Kg) with heated probe barrel
<b>Probe Barrel</b>	5/8" Thick wall, 316 Stainless steel tubing
<i>Length</i>	52" (132cm)
<b>Heated Filter</b>	0.1 Micron glass fiber element
<i>Temperature</i>	290°F (143.3°C)
<b>Remote Electronic Control</b>	Single loop controllers for temperature control +/-2°F (1.1°C)
<b>Materials of Construction</b>	
Enclosure	NEMA 4X Fiberglass - 18" (45.7cm) H x 16" (40.6cm) W x 10" (25.4cm) D
Filter Body	316 Stainless Steel, temperature controlled at 290°F (143.3°C)
<b>Options</b>	
Probe Barrel	Teflon-lined 316 Stainless steel (applications below 275°F), Hastelloy C-276, other, specify
Mounting Flange	Size other than 4", specify
Heated Filter	Special Materials for reactive gases (HCl, NH <sub>3</sub> , THC, etc.)
Enclosure	Other, specify
Non-insulated Stack	Enclosure cooling, A/C or vortex cooler

### Simplified Probe Assembly



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