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PRODUCT SPECIFICATIONS

PRO3000 Full Extractive Probe

Modular, external probe for wet or dry-basis measurement

The Thermo Scientific™ PRO3000 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.

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 U.S. EPA requirements as defined in 40CFR Part 60

Introduction

The temperature of the Thermo Scientific PRO3000 probe barrel and filter may be controlled by either an optional PRO3000 probe controller or the Thermo Scientific iMEGA CEMS probe controller Housed in a NEMA 4X enclosure, this probe is highly durable and easily mountable to the stack or duct. The PRO3000 probe assembly includes a full extractive probe, heated probe barrel, purge valve, check valve and an insulated enclosure.

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

Thermo Scientific™ PRO3000 Full Extractive Probe

Typical applications include:

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

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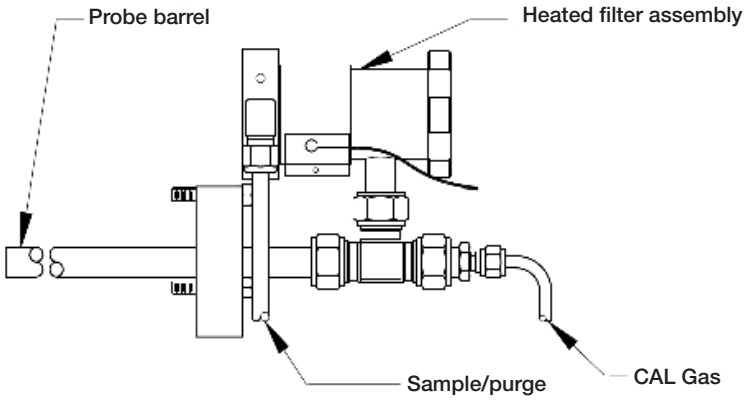
Thermo Scientific™ PRO3000 Full Extractive Probe

General specifications	
Power requirements	120 VAC, 310 watts or 240 VAC, 1310 Watts with heated probe barrel
Ambient operating temperature range	-4 ˚ to +122 ˚F (-20˚ to +50 ˚C)
Maximum process temperature	-1,112 ˚F (600 ˚C)
Instrument air required for purge clean	Dry air at -40 °F (-40 °C) dew point, 60 PSI minimum
Size and weight	17" (43.2 cm) W × 19" (48.3 cm) H × 10.5" (26.7 cm) D, 39 lbs (17.7 kgs) 52.5 lbs. (23.8 Kg) with heated probe barrel
Probe barrel Length	5/8" thick wall, 316 stainless steel tubing 52" (132cm)
Heated Filter Temperature	0.1 micron glass fiber element 290˚F (143.3˚C)
Remote Electronic Control	Single loop controllers for temperature control +/-2°F (1.1°C)
Materials of construction: Enclosure Filter body	 NEMA 4X fiberglass - 18" (45.7cm) H × 16" (40.6cm) W × 10" (25.4cm) D 316 stainless steel, temperature controlled at 290°F (143.3°C)
Options Probe barrel Mounting flange Heated filter Enclosure Non-insulated stack	 Teflon-lined 316 stainless steel (applications below 275°F), Hastelloy C-276, other, specify Size other than 4", specify Special materials for reactive gases (HCl, NH3, THC, etc.) Other, specify Enclosure cooling, A/C or vortex cooler

Simplified probe assembly



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