

Sample System Specialists for Gas Analysis

270 Series

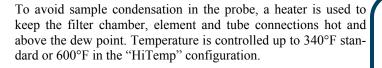
Gas Sample Probe

General Description

The Universal Analyzers Model 270S heated sample probe is designed for continuous use in extractive gas sampling systems. The modular design is used to filter dust and particulate from a wide variety of gas streams in exhaust stacks and duct applications. The sample probe is designed with the end user in mind and comes with a unique no-tools design for filter replacement. This versatile probe is available in a number of configurations with many options to customize it to specific applications.

These options include:

- ► Corrosion Resistant Wetted Materials
- ► Choice of Flange Sizes (2, 3, 4, 6 inch)
- Self or DIN Controlled Filter Heat
- ► Filter Blowback (for low maintenance)
- ► Location Compliant Supply and Control Voltages
- ► Stainless Steel or Fiberglass Enclosures for Environmental Protection.
- ▶ Optional Hazardous Area FM Approval for Class I, Div.2 areas.



For continuous operation in low to moderate dust loading environments, it is important to provide filter blowback for periodic cleaning of the filter chamber and probe tube. High-pressure plant air is stored in an accumulator tank and then released through a Hi-flow solenoid valve.



270S Within Fiberglass Enclosure (Oring removal tool optional)

Applications

- **♦** Gas Turbine
- ♦ Refinery
- ♦ Boiler
- ♦ Chemical Process
- ♦ Heater Units
 - Other Moderate Dust Environments

Optional ANSI flanges, standard and corrosion resistant probe tubes and probe tip filters are also available.

Features

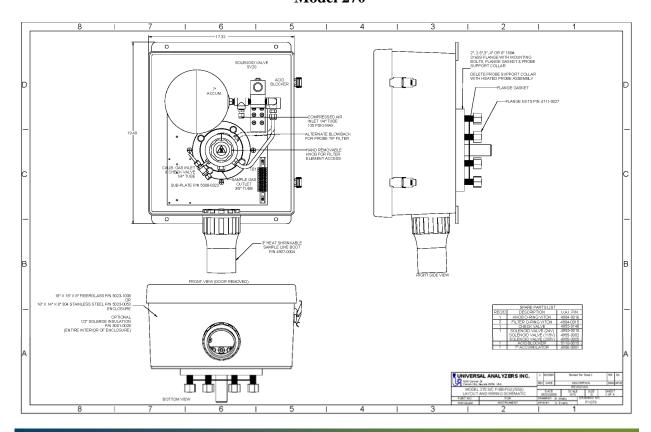
- Easy filter element replacement
- ► Efficient Blowback
- User-Friendly design
- ► Self regulating temperature control
- Hazardous area options
- Sub flange for easy removal of probe tube/filter
- Sen regulating temperature control
- Heated Filter Chamber
- Rugged Construction
- Ease of Maintenance
- ► Corrosion Resistant wetted parts
- Stainless Steel or Fiberglass Environmental Protection

Assembly operated valves to eliminate electrical power in the area or with explosion proof solenoid valves.



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Model 270



Technical Specifications

- ► Sample Flow Rate:
- ► Calibration Gas Requirement:
- ► Operating Pressure Drop at 10 LPM:
- ► Maximum Stack Gas Temperature:
- Oven and Vaporizer Temperature:
- ► Dimensions (Varies w/Model FG/SS/C):
- Weight:
- ► Input Power Requirement:
- ► Input Voltage Requirement:
- ► Blowback Tank Volume:
- ▶ Blowback Duration:
- ▶ Blowback Timer Period:
- ► Blowback Solenoid Valve Voltage:

0 to 20 LPM

Sample flow rate plus 10%

12" water column

700°F STD (Higher with optional extension spool)

340°F (Optional 500°F)

16" x 14" x 8" with fiberglass box

40-45 LB (18-20 KG) (depending on options included)

150 WATTS

250 WATTS with heated blowback

115 or 230 VAC at 50/60 HZ

0.1 SCF or 2.9 liters

Two (2) seconds

Exterior control (without timer card)

15 minutes to 24 hours (with timer card)

12/24V or 115/230V (without timer card)

115/230V (with timer card)