

Ancillary equipment

specifically designed for gas analysis systems

In addition to reference method gas analysers, Signal Group also manufactures a full range of sample handling, calibration and test instruments; making Signal a one-stop-shop for emissions monitoring equipment.

Raising gas analysis to new levels

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Ancillary equipment

Heated sample handling units

363 Portable heated sample pump/filter

A light duty, portable heated pump and pre-filter unit for use with single heated instruments. Provides variable inlet pressures and sample flow rates for very low sample pressures, or very long heated lines, or for pumpless measurement instruments.



361/2 Heated pump/filter/dist oven

A built-in heated pump draws sample from the pre-filtered exhaust probe. This is then distributed to two heated analysers, and a third line is fed to a cooler dryer for sample conditioning for dry gas analysers such as the Signal Group S4 PULSAR Multi-gas analyser. The two filters can be switched via an external switching unit (picture shows dual channel Model 362).



A single sampling point unit (Model 361) with just one filter unit is also available.

346 FEF Module

The Front End Filter (FEF) Module is a prefilter which is installed close to the sampling point, providing sample filtration and system integrity checking with Span gas being passed down the heated line to check for hydrocarbon 'hang-up'.



Cooler Dryers

203 Cooler / Dryer

This 19" rack mounted cooler dryer has up to three independent channels and is supplied complete with temperature and condensate alarms. The cooled and dried outlet sample is directed to the gas analyser.

A single channel version (known as the Pod) is also available.



200SM Series Cooler / Dryer

These 19" rack mounting cooler dryers remove water vapour from Stack and Exhaust emission gases, before analysis by ambient analysers.



Methane cutters

320 Cutter

An external non-methane hydrocarbon cutter provides the capability to measure methane-only for clients with a standard heated flame ionisation detector (FID). The Model 320 therefore provides a low cost alternative to all-in-one FIDs with a built in cutter.



NO₂ and NH₃ to NO Converters

410 and 420 Converters

This compact 19" rack enclosure houses either a NH₃ to NO converter or NO₂ to NO catalysts, as well as a self contained heated filter and calibration gas selection valve. It is generally used with chemiluminescent NO_x analysers.



Ancillary equipment

Zero air generator

AS80 Zero air generator

Provides an inexpensive source of clean, zero-grade air for flame ionisation detectors (FID). Removes all hydrocarbons, including methane, down to 0.1% of the original level. Up to 10 FID units can be run from one unit.



Test & Calibration equipment

821S Gas divider

This gas divider provides ten fixed points for checking instrument linearity across the full measurement range. The instrument is suitable for use with any gas compatible with st-st, ptfe and kynar materials.



NOXGEN 3 NOx converter efficiency tester

This device is used to check the converter efficiency of Chemiluminescent NOx analysers during manufacture and after every 6 months of operation. The Noxgen 3R provides the option of remote control using TTL levels for all operational functions.



Heated line

Heated line plus Model 530 Temperature controller

Provides an inexpensive source of clean, zero-grade air for flame ionisation detectors (FID). Removes all hydrocarbons, including methane, down to 0.1% of the original level. Up to 10 FID units can be run from one unit.

