



FLEXOTHERM

A Neptech Inc. Product

**Serving the
Global
Emissions
Control
Industry
One
Customer
at a Time**

Environmental Emissions

Monitoring Products



Neptech Inc provides specially designed **heated sample lines** and **probe support bundles** used in air pollution monitoring and control systems. These sample handling umbilical lines can be designed with multiple tubes including unheated tubes, for calibration gases, insulated from the heated core. Additionally, various wires of any gauge or color, including thermocouple extension wires, can be added for control and monitoring of the probe from the analyzer location.

Neptech Inc uses Fluoropolymer tubing made from 100% virgin material. This tubing is free from additives, fillers, and reground polymer that can increase the level of extractables and increase reactivity to emissions gases. Ultra High Purity tubing is also available for those applications measuring extremely low levels or highly reactive analytes.



Our heated sample lines are utilized in stationary applications such as Continuous Emissions Monitoring Systems (CEMS) as well as flexible applications such as Relative Accuracy Test Audits (RATA). Other applications include: Flue Gas Emissions, Gas Analyzers, Hydrocarbon Analyzers, Mercury Control Systems, Portable Gas Monitors, Chemical Processing, and various other air pollution control or emission monitoring equipment for environmental compliance.

Continuous Emissions Monitoring Systems (CEMS)

Heated Sample Line

system is comprised of tinned copper-braided Constant Power Density heating element, single or multiple process tube(s), a heat reflecting foil wrap, moisture resistant fibrous glass thermal insulation, and various jacketing material options.

Probe Support (unheated sample line)

Designed specifically to your requirements. Comprised of single or multiple



Relative Accuracy Test Audits (RATA)

PFA Heated Sample Line

Features a PFA Fluoropolymer core covered with a tinned-copper reinforcing band. The heating element is a series resistance, spiral wound wire providing excellent flexibility and temperature uniformity. The heated core is layered with a fibrous thermal insulation and then jacketed to your specifications.



PTFE Heated Sample Line

Features a PTFE Fluoropolymer core covered with a stainless steel reinforcing band. The heating element is a series resistance, spiral wound wire providing excellent flexibility and temperature uniformity. The heated core is layered with a fibrous thermal insulation and then jacketed to your specifications.

All heated sample line models are manufactured to your specifications. In addition to Relative Accuracy Test Audits (RATA) these designs may be utilized in automotive gas and diesel engine emissions testing.

Combustion Gas/Flue Gas Analyzers

Model PTFE(PTFE Fluoropolymer)

Model SS(Stainless Steel)

Model HPSS(High Pressure Stainless Steel)

These designs consist of a helically convoluted core for high flexibility covered with a stainless steel reinforcing band. These products are typically used in flexible applications such as Portable Gas Monitors and Gas Chromatograph systems as



Engine Emission Analyzers

Heated Sample Line features a PTFE Fluoropolymer core covered with a stainless steel reinforcing band. The heating element is a series resistance, spiral wound wire providing excellent flexibility and temperature uniformity.

The heated core is layered with a fibrous thermal insulation and then jacketed to your specifications.



Heated Sample Line Accessories

Neptech Inc provides various accessories for the emissions industry such as heated and insulated filter housings, temperature controllers, cable entry seals and more.

Approvals and Certifications for Flexotherm™ Products

Proper operation and safety are always a concern for our customers. Our Heated Sample Lines meet all recognized safety and functional standards. Provides the widest range of approved/certified heated sample lines in the world, as well as the only lines with integral power and control wires approved for use in hazardous areas.

Our Heated Sample Lines with specified self-regulating or constant power density heating elements are approved by Factory Mutual Approvals for use in Class I, Division 2, Groups B, C, and D; Class II, Division 2, Groups F and G; and Class III, Division 2; as well as Class I, Zone 2, Gas Group IIB+H2 hazardous areas.

For applications where the bundle acts as an umbilical link, optional power and control wires and cables can be added that meet the needs of the application and the requirements of the hazardous area. Bundles can be prepared with finished ends so no additional installation labor is required.

Where applications require compliance to European Norms, Flexotherm can offer Electric Traced Tubing Bundles and Heated Hoses that have been tested and meet or exceed the requirements of the Low Voltage Directive, Electromagnetic Compatibility Directive, Safety in Electro-Heat Equipment standard, and other electrical safety requirements. These products are certified and carry the "CE" label.

FLEXOTHERM™
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