

Transmission

Storm™ 10 - Short Pathlength Gas Cell

The Storm™ 10 series gas cells are the ideal choice for measuring the infrared spectra of concentrated gases, gas mixtures and vapours (>1% levels) at ambient temperatures and pressures. Cells are suitable for operation in all modern FT-IR spectrometers using a cell mount.

The 10cm fixed pathlength design is user demountable allowing easy cleaning and maintenance.

Applications flexibility and chemicals compatibility is ensured through a range of body materials (Pyrex or Stainless Steel) and a wide choice of window materials.

Gasses can be analysed in static or flow modes, and stopcock valves provide for evacuation, sample introduction and release.



Ordering Information

- GS05000** 10cm Pyrex Gas Cell Body
- GS05800** 10cm Stainless Steel Gas Cell Body
- GS05030** Cell Mount for 10cm Gas Cells

For a complete Storm™ 10 Gas Cell system, please order gas cell body, cell mount and a pair of windows of your choice.

Spares and Consumables

- GS05040** Seal Kit for Pyrex Gas Cell
- GS05803** Vacuum Valve for Stainless Steel Gas Cell
- GS05804** Seal Kit for Stainless Steel Gas Cell

Window Options

- GS05020** Pair of NaCl Windows
- GS05021** Pair of KBr Windows
- GS05022** Pair of CaF₂ Windows
- GS05023** Pair of BaF₂ Windows
- GS05096** Pair of ZnSe Windows

Product Highlights

- 10cm fixed pathlength single pass design
- Demountable design for ease of maintenance
- Choice of cell body materials
- Choice of window materials
- Twin taps for evacuation, static or flow-through operation

Applications

- Analysis of concentrated gases & vapours
- Residue solvent vapour analysis
- Liquid head space analysis

Specifications

Pathlength	10cm
Volume	132cm ³ (Pyrex) 114cm ³ (Stainless Steel)
Pressure Range	Vacuum to ambient
Temperature Range	Ambient
Body Material	Pyrex or Stainless Steel
Window Seals	Neoprene
Clear Aperture	38mm
Windows	Client to specify
Mount	Standard 3" x 2"

Illustrations, descriptions and specifications in this datasheet were correct at the time of going to press. However, Specac's policy is one of continuous product development and we reserve the right to change descriptions and specifications at any time.

For the latest details please contact your local Specac office or representative.

Transmission

Storm™ 10H - Heated Gas Cell

The Storm™ 10H Heated Gas Cell is a single pass, 10cm fixed pathlength design, for the measurement of the infrared spectra of concentrated gases, gas mixtures and vapours (>1% levels) at temperatures up to 250°C. Solid and liquid decomposition studies can also be performed and the cell can be operated in static or flow-through modes.

The cell consists of a stainless steel evacuable chamber with an injection septum sample introduction port, thermocouple port and vacuum valve. Windows are secured using threaded end caps and chemically resistant seals. The cells can be dismantled to allow easy cleaning and window replacement.

Low voltage heaters and a dedicated High Stability Temperature Controller allow safe and accurate sample heating. The temperature is measured with a thermocouple situated in the cell cavity. An RS232, RS485 or USB option allow independent temperature control using a computer.

A comprehensive range of replacement windows ensures that cells can be configured to precisely suit analytical requirements.

CE Compliance

The Storm 10H Heated Gas Cell system is CE compliant ensuring that it can be operated safely at all times under the recommended conditions.

Specifications

Pathlength	10cm
Volume	114cm ³
Pressure Range	Vacuum to ambient
Temperature Range	Ambient to 250°C
Body Material	Stainless Steel
Clear Aperture	38mm
Windows	Client to specify
Seals	Silicon
Heaters	36 Volts / 120 Watts
Thermocouple	K-type NiCr/NiAl
Temperature controller	Specac Series 4000
Mount	3" x 2"



Applications

- Analysis of concentrated gases & vapours
- Decomposition studies of solids and liquids

Standard Features

- 10cm fixed pathlength single pass design
- Heated operation up to 250°C
- Temperature control to +/- 1°C
- Demountable design for ease of cleaning
- Stainless Steel construction
- Choice of window materials
- Static or flow mode

Ordering Information

GS05670 10cm Heated Gas Cell body with Controller and mount (Specify voltage and country)

For a complete Storm™ 10H Heated Gas Cell system, please order the gas cell body and a pair of windows of your choice.

Spares and Consumables

- GS05662** Flow Tubes (stainless steel, 10)
- GS05665** Injection Septa (10)
- GS05667** Seal Kit for 10cm Heated Gas Cell

Window Options

- GS05020** Pair of NaCl windows
- GS05121** Pair of KBr windows
- GS05022** Pair of CaF₂ windows
- GS05023** Pair of BaF₂ windows
- GS05096** Par of ZnSe windows

Options

- GS28000** RS232 Connection kit
- GS28001** USB Connection kit
- GS28002** RS485 Connection kit

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