INFRASOLID[®]

Highest accuracy · Highest selectivity

Gas Filter Cell

for best optical measurement of gases

Key features

- Elimination of cross-sensitivities to interfering gases in optical gas analysis.
- Adjustment of measuring instruments and gas analyzers.
- Soldered, high-quality CaF₂ window. Leakage tested!
 - Filling tube enables self-filling with desired gas and sealing.
 - Broad range of applications from UV to far infrared spectral range.

Hermetic gas filter cells are gas-filled cylinders and are used to block out specific frequency bands of interfering gases in optical gas analysis.

Additionally, the cells can be filled with reference gases of certain gas concentrations to be used for calibration of gas analysis systems, e.g. adjusting laser wavelengths to specific gas absorption bands.

For a very high long-term stability our gold-plated gas filter cells are hermetically sealed. The high transmissivity is achieved by soldered CaF_2 windows.

Applications in gas analysis



ENVIRONMENTAL MONITORING



H2O VAPOR FILTER



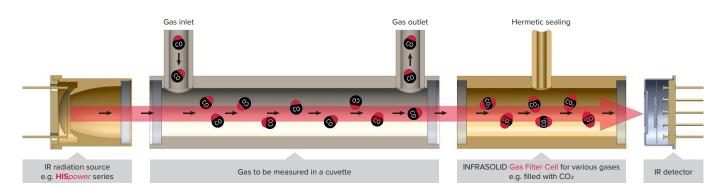
MEDICAL GAS ANALYSIS



SYSTEM CALIBRATION

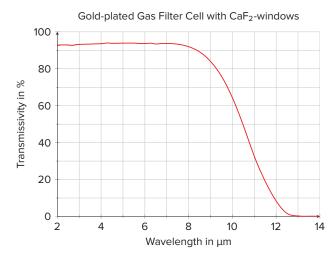
Example application

NDIR gas measurement with gas filter cell for elimination of cross sensitivities and highest selectivity



Data sheet

Optical specifications



Main specifications

Parameter	GFC-12	GFC-35	GFC-100
Length*	12 mm	35 mm	100 mm
Temperature range	-25+85 °C	-25+85 °C	-25+85 °C
Window	2 x soldered CaF ₂	2 x soldered CaF2	2 x soldered CaF ₂
Material	Gold plated brass	Gold plated brass	Gold plated brass
Transmissivity	85% up to 8 μm	85% up to 8 μm	85% up to 8 μm

* Other lengths on request.

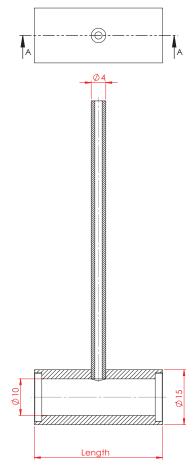
Are you looking for IR emitters, detailed technical specifications or would you like to have an individual development? Visit our website and feel free to contact us!

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Technical drawing



GASFILTERCELL EN 210111