



Highest accuracy · Highest selectivity

Gas Filter Cell

for best optical measurement of gases



Key features

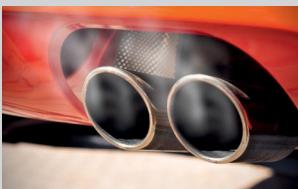
- ✓ Elimination of cross-sensitivities to interfering gases in optical gas analysis.
- ✓ Adjustment of measuring instruments and gas analyzers.
- ✓ Soldered, high-quality CaF₂ window. Leakage tested!
- ✓ Filling tube enables self-filling with desired gas and sealing.
- ✓ Broad range of applications from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

Applications in gas analysis



ENVIRONMENTAL MONITORING



H₂O VAPOR FILTER



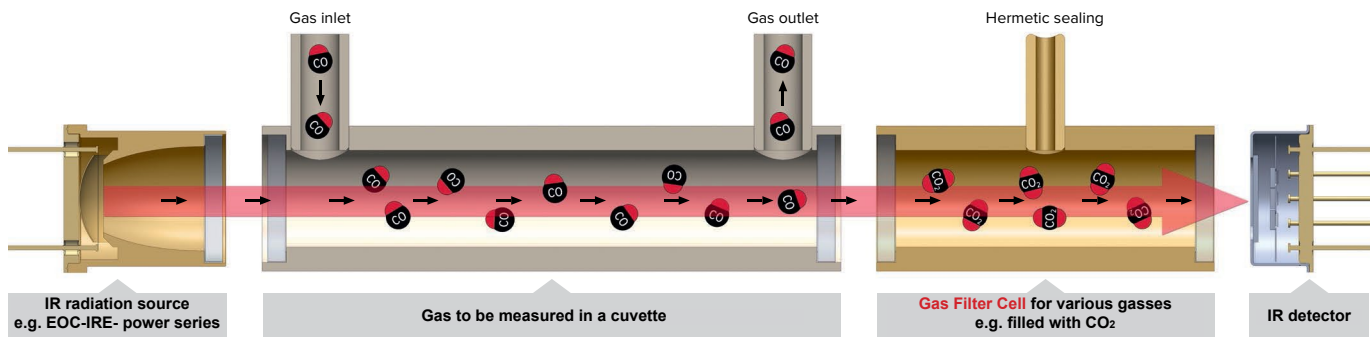
MEDICAL GAS ANALYSIS



SYSTEM CALIBRATION

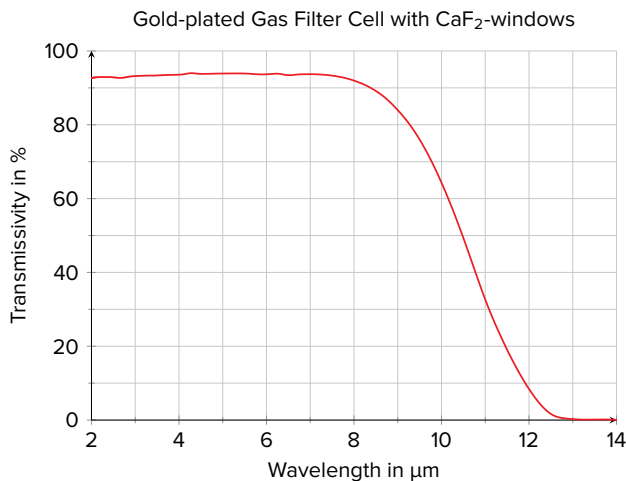
Example application

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

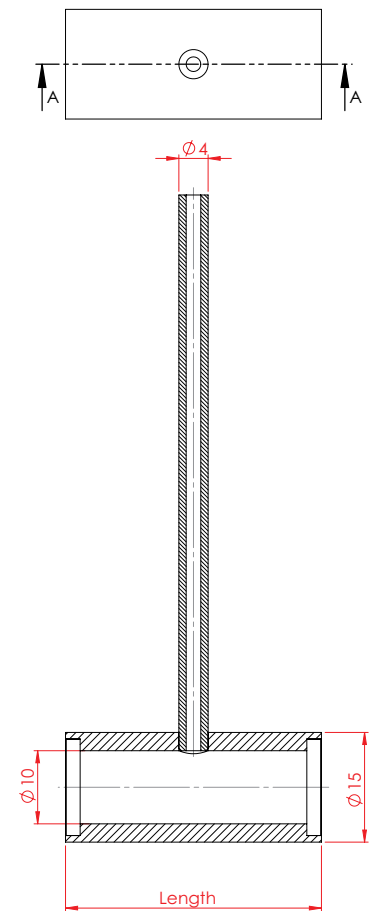


Data sheet

Optical specifications



Technical drawing



Main specifications

Parameter	EOC-GFC-12	EOC-GFC-35	EOC-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 CaF ₂	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.