

neoplas control

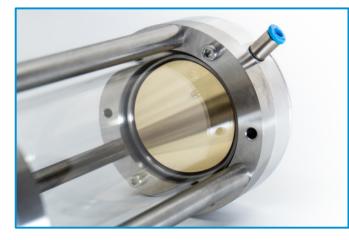
solutions for your operations in gases and plasmas



Q-MACS MPO HERRIOT

Our latest Herriott cell design allows to significantly reducing the gas volume by increased optical path lengths. This performance is achieved by utilizing the mirror area more efficiently compared to common Herriott cell layouts. The compact construction makes it well suited to applications, which require a long interaction path between a gaseous medium and emission by a radiation source like mid infrared lasers, while keeping the dimensions of the optical setup as small as possible. Furthermore, the low gas volume ensures fastest gas exchange rates at very high sensitivity.

The Q-MACS Herriott cell is a central part in various sensor systems and OEM modules for the monitoring of ambient trace gas concentrations like the Q-MACS Trace compact series. With its outstanding features the Q-MACS Herriott cell eases the design and implementation of laser-based systems in trace gas monitoring applications. Its robustness and compactness makes it the ideal choice for the integration as an OEM module into industrial products.



general

compact closed absorption cell description of type Herriott dimensions weight <1700 g mechanical interface

mirror material

window material

cell body

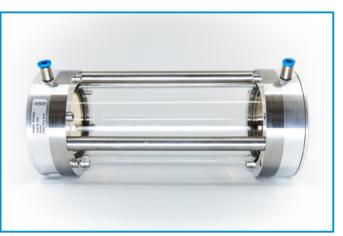
volume

gas connectors pressure range gas leak rate

195 mm x 83 mm x 83 mm $(L \times H \times D)$ [without conectors]

gold coated copper (other material on request) potassium bromide (KBr) (other material on request) stainless steel, pyrex tube, FKM o-rings 0.35 |

(customized solution on request) Festo 4 mm Push-in fittings 10 mbar to 2 bar <1 ubar*l/s



optical interface

input hole diameter mirror diameter wavelength range reflectivity number of passes path length

optical axis height

in-out half-angle

6,7 mm 50 mm 2 μm to 12 μm >98 % 184 27.55 m (customized solution on reauest) 63 mm 4 0

operating and storage conditions

operating temperature

operating humidity storage temperature storage humidity

-15 °C to 150 °C (extended temperature ranges on request) 15 % to 75 % (rel.) -55 °C to 70 °C 10 % to 100 % (rel.)