

[OELPC-100]

## Long Path Herriott Gas Cell

### Features:

- Ultraviolet to mid-infrared wavelengths
- Fiber pigtailed or free space output
- Custom design and fabrication
- Optional built-in isolated gas chamber
- No need for optical alignment
- Low cost

### Applications:

- Gas sensing
- Spectroscopy
- Research and development



OELPC-100

### Product description:

The Herriott-type Long-path Optical Gas Cell is targeted for use in applications like gas sensing, spectroscopy, etc., in which a long optical path is required. OELPC-100 comes with or without built-in isolated gas chamber. For efficient optical coupling, the cell can be attached with optical fiber pigtailed. A beam entering the cell undergoes multiple reflections between two metal-coated highly reflective mirrors and the total length can be up to 100 m.

The input/output ports on this gas cell can be free space or fiber-pigtailed collimators. Additionally, the output termination can be a photo detector with a suitable operation range. These cells are designed such that, user can easily integrate them in an optical system without requiring any complex alignment process. This gas cell can be custom designed based on your requirements to support your target beam size and path length.

Parameter	Unit	OELPC-100
Operation wavelength	nm	UV to MIR
Total path	m	Up to 100
Pressure (OELPC-100)	atm	1 - 10
Cell volume	cm <sup>3</sup>	70
Built-in isolated gas chamber	-	optional
External dimension (LxWxH)	mm	150 x 74 x 70 or custom
Weight	kg	1
Optical coupling	-	Free space, fiber pigtail
Fiber type	-	SMF, MMF
Connector		FC-LC-SC / PC-APC



OELPC-100 Gas Cell with built-in isolated chamber

Ordering number:

OELPC-100-WL-PL -Type:	WL	Path length	Isolated gas chamber
	Wavelength (nm)	In meter	Y: YES N: NO
Example:	OELPC-100-1550-50-N		