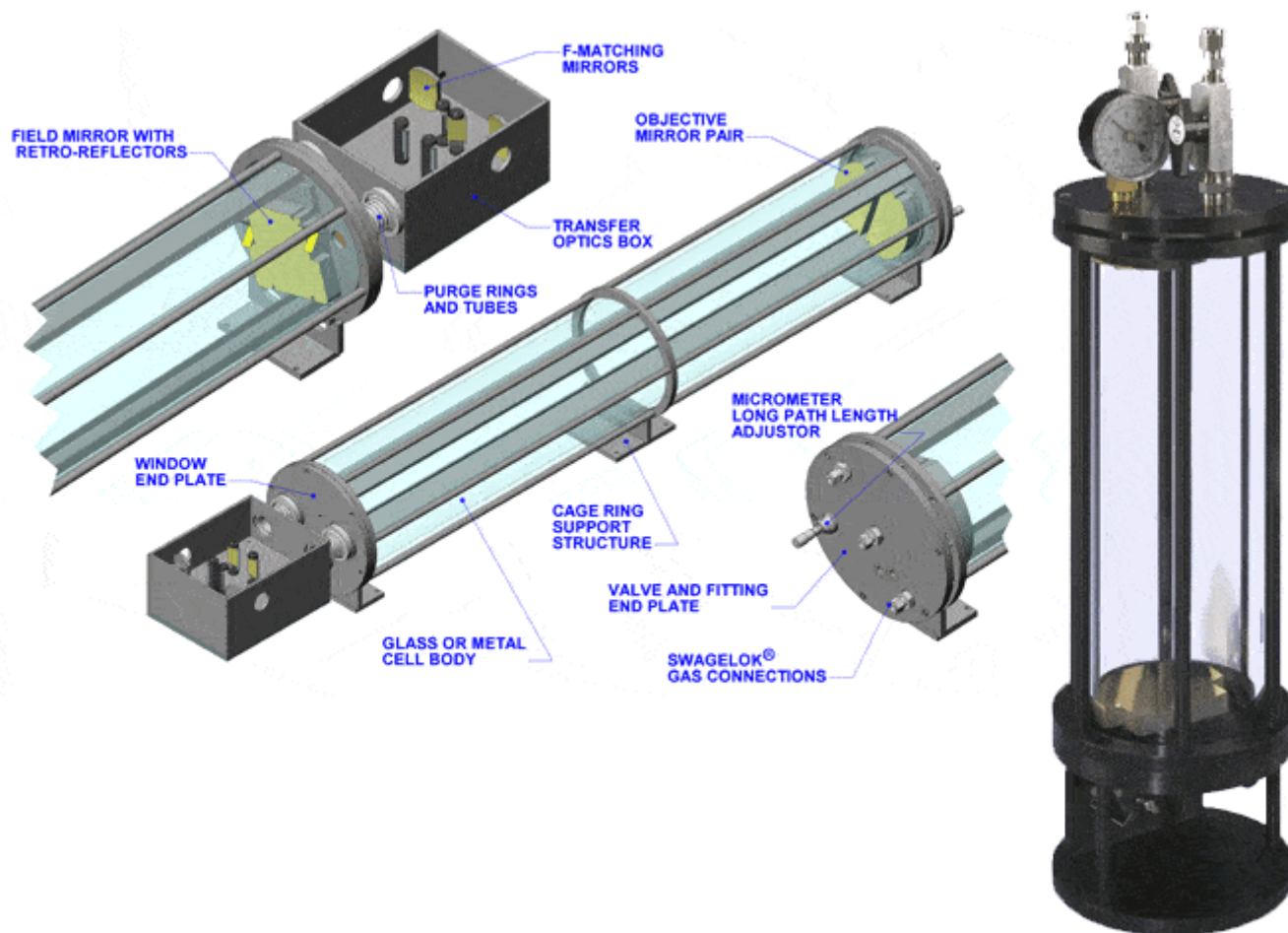


Earth™ and Saturn™ Glass Bodied Long Path Gas Cells



Gemini™ Earth™ glass bodied long path gas cells are, like Venus™ cells, classic Hanst cells, but with larger volumes and longer path lengths. Pathlengths range from 10 to 20 meters and volumes range from 2 to 8 liters.

For applications requiring ultra long path lengths we offer our Saturn™ series multi-pass gas cells that range from 80 to 200 meters. These cells employ an innovative advancement in White cell configuration that effectively triples the operational range of the cell within a moderate size cell volume, thereby providing path lengths in excess of 100 meters that still produce strong signal throughput to enable part per billion (ppb) trace level detection sensitivity in ambient conditions and when sampling gas mixtures.

The spectra show excellent signal to noise performance at 0.5cm⁻¹ resolution in a 160 meter path length cell in a few minutes of elapsed observation time.

All Earth and Saturn cells feature SS Swagelok® valves, multilayer gold coated mirrors, borosilicate glass bodies, transfer optics and base plate configurations to fit most spectrophotometers, and black anodized aluminum hardware. Earth™ cells use 1/4" SS flow tubes and Swagelok® connections and Saturn cells use 3/8" SS flow tubes and Swagelok® connections. All variable path length cells incorporate a laser alignment device with a 6 volt DC power supply for path length verification based on the number of passes made through the cell.



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Several typical Earth™ and Saturn™ cell configurations are shown, but custom configurations are available upon request. Prices do include KBr windows, but optional windows can be selected from our transmission window price list. RFQ for wedged windows to limit fringing a/k/a channeling. Cell mounting and other hardware, exclusive of the cell body material and valves, is black anodized aluminum. Fittings and Valves are SS Swagelok®. All cell bodies are borosilicate glass. Mirrors are removable and easily serviced.

- 0008-9298 EARTH™ GLASS BODIED LONG PATH GAS CELL-10M PATHLENGTH-2L VOLUME 2 L
- 0008-9299 EARTH™ GLASS BODIED LONG PATH GAS CELL-VARIABLE 1-10M PATHLENGTH-2L VOLUME 2 L
- 0008-9300 EARTH™ GLASS BODIED LONG PATH GAS CELL-20M PATHLENGTH-8L VOLUME 8 L
- 0008-9279 Spectrophotometer-Specific Interface for Gemini™ Mercury™, Venus™, Mars™, Earth™ or Saturn™ Gas Cells
- 0008-9280 Replacement Valve Kit for Gemini™ Mercury™, Venus™, Mars™, Earth™ or Saturn™ Gas Cells
- 0017-5548 High Stability PID Digital readout Temperature Controller, 115 volts
- 0017-4804 High Stability PID Digital readout Temperature Controller, 230 volts, CE marked
- 0008-7684 Heater Jacket for Mars™, Earth™ and Saturn™ Gas Cells



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