

## GT-10 SERIES

### 10 CM PATHLENGTH TRANSMISSION CELLS

Models GT-10, GT-10-T

Durasens™ 10 cm pathlength transmission gas cells are designed to monitor gas streams in process environments using transmission spectroscopy. These cells are designed to be placed directly into the beam of a spectrometer. The cells have an internal volume of only 17 mL and provide for the unimpeded flow of gas through the cell. The standard cell body material is 316 stainless steel with ¼" in/out tubing. Different materials such as Hastelloy are also available. The optical windows are available in a variety of optical materials such as Quartz, Sapphire, Cubic Zirconia, ZnSe, ZnS, CaF<sub>2</sub>, etc.

The optional temperature control package enables these cells use to be used at temperatures of up to 260°C. The GT-10 Series cells are available in a temperature controlled version (Model GT-10-T). A compatible low-voltage temperature controller is available separately.



Model GT-10-T

#### PRODUCT HIGHLIGHTS

- 10 cm pathlength transmission gas cell
- 20 mm diameter clear entrance and exit apertures
- Cell volume under 17 ml
- Demountable windows for easy exchange or cleaning
- Wide choice of window materials
- Temperature controlled models available
- Maximum temperature up to 260°C
- Compatible Automatic Temperature Controller available
- Standard sample slide holder mounting

#### SPECIFICATIONS

<b>Body Material</b>	316 Stainless Steel standard, other materials available
<b>Fittings</b>	¼" in/out tubing, other fittings available
<b>Window Material</b>	Al <sub>2</sub> O <sub>3</sub> , BaF <sub>2</sub> , CaF <sub>2</sub> , KBr, NaCl, SiO <sub>2</sub> , ZnS, ZnSe, and others
<b>Optical Pathlength</b>	10 cm
<b>Wavelength Range</b>	From UV to Far IR, depending on window material
<b>Max Operating Temperature</b>	200°C with Viton O-rings, 260°C with Kalrez O-rings

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### ORDERING INFORMATION

MODEL	DESCRIPTION
GT-10	10 cm Pathlength Transmission Cell
GT-10-T	Temperature Controlled 10 cm Pathlength Transmission Cell
ATC-024-1	Automatic Temperature Controller (110V Input, 24V Output)
ATC-024-2	Automatic Temperature Controller (220V/240V Input, 24V Output)

\* Includes 316 stainless steel cell with a needle valve on one port and a 1/8" NPT plug on the second port, two Viton o-rings and window mounting hardware.

**Windows are not included.** Order windows separately (two per cell required).

### WINDOWS

MATERIAL	25x2MM	25x4MM
Al <sub>2</sub> O <sub>3</sub>	WAO-25-2	WAO-25-4
BaF <sub>2</sub>	WBF-25-2	WBF-25-4
CaF <sub>2</sub>	WCF-25-2	WCF-25-4
KBr	WKB-25-2	WKB-25-4
NaCl	WNC-25-2	WNC-25-4
SiO <sub>2</sub>	WSO-25-2	WSO-25-4
ZnS	WZS-25-2	WZS-25-4
ZnSe	WZSE-25-2	WZSE-25-4

### O-RINGS

MATERIAL	SET OF 2
Viton	ORV -020
Kalrez	ORK -020