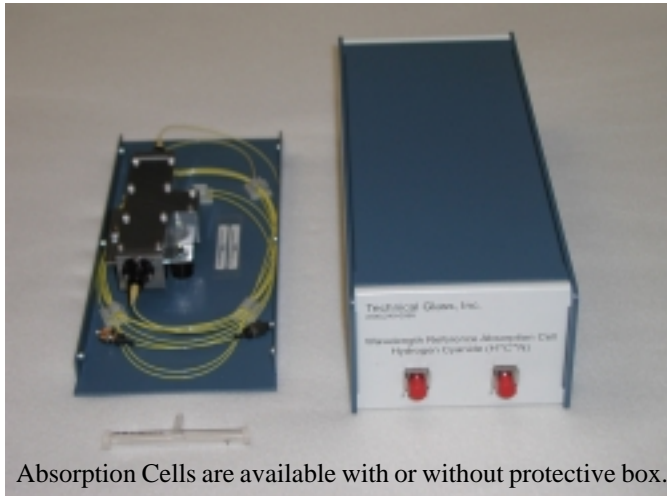


# Wavelength Reference - Technical Glass, Inc.



**Technical Glass, Inc.** manufactures and assembles the complete units, insuring exceptional control over the quality of the finished product.

Our experienced glassblowers produce each cell, which is then vacuum-tested, and individually filled under controlled conditions. The housing components are manufactured in-house by our skilled machinist.

As a final step, each unit is post-cured and verified for wavelength characteristics.

As an OEM manufacturer, we have instituted a quality assurance program which meets or exceeds the precise tolerances required to produce the wavelength reference units.

## Features

The all-glass cell, produced with wedged windows, is hermetically sealed at an angle to minimize back reflections. Each cell is individually filled for higher accuracy. The shock-mounted aluminum housing securely holds the optical cell. Units are assembled using low back-reflection collimators.

## Gases

Acetylene, hydrogen cyanide, carbon monoxide, custom gases.

## Housing

The cell can be enclosed in a protective aluminum housing. In addition, this compact package is available with or without fiber collimators.

## Enclosure

The entire assembly is encased in a rugged box with FC/PC connection.



## Optical Cell

featuring wedged and angled window design

	<b>Hydrogen Cyanide</b> TG-HCNWRU	<b>Acetylene</b> TG-C2H2WRU
Wavelength Uncertainty <sup>1</sup>	.6 picometers	.6 picometers
Gas Pressure	100 torr	50 torr
Wavelength nm	1530-1560	1510-1540
Line Width	.05nm	.025nm
Line Depth	Approx 40%	Approx 45%
Transmission	>35 %	>45 %
Optical Pathlength	225mm	50mm
Size of Cell	80mm long	55mm long
Size of Complete Unit	13L x 5W x 4H	10L x 5W x 4H

<sup>1</sup>projected uncertainty of +/-0.0006nm (coverage factor k=2)

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