

# EIT RADIOMETER QUARTZ ROD

## Introduction



The EIT Quartz Rod is a rugged accessory designed to extend the reach of the Compact Sensor in high-temperature or confined spaces. It allows accurate real-time measurement of UV intensity while keeping the sensor itself safely located in a cooler, more accessible area.

## Key Features

Feature	Description
Material	High-purity fused quartz—excellent UV transmission and thermal resistance
Diffuse Outer Surface	Ensures consistent, uniform light diffuse transmission
Length	4 inches (10 cm)
Diameter	0.2 inches (0.5 cm)
Mounting Compatibility	Designed to fit in the <b>CS-1 Compact Sensor housing</b> , held securely by a set screw instead of the usual purge assembly
Ideal for	High-temperature zones and tight spaces where direct sensor placement is impractical .

## Why Use It?

- Ideal for Harsh Conditions: Keeps the actual Compact Sensor away from areas with uncontrolled heat or limited access.
- Reliable Precision: Allows the UV measurement to occur at the cure point, while the sensor remains in a safer location.
- Simple Integration: Fits directly into existing CS-1 housings—no redesign needed.

## Use Case Example

- Imagine a mercury lamp housed inside a curing oven where:
- There's no space to place the sensor directly,
- The environment is too hot for electronics,
- Or a quartz window separates the UV from the outside.

Solution: Mount the quartz rod behind the lamp (or through the quartz window), and run it back to the sensor located in a cool, accessible area.

## Main Features

Feature	Description
Light Guide Function	Captures UV energy at the tip and transmits it through the rod to the Compact Sensor
High Temperature Tolerance	Ideal for use in <b>hot environments</b> , e.g., near UV lamps
Rigid & Durable	Designed for <b>industrial use</b> — will not melt, deform, or yellow with exposure
Customizable Mounting	Can be paired with <b>special mounting blocks</b> or positioned behind reflectors

## Important Notes

- The Quartz Rod is only compatible with specific Compact Sensor setups (e.g. BTR housing)
- Calibration must account for the rod’s light transmission efficiency
- Not needed in open or easily accessible UV installations

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