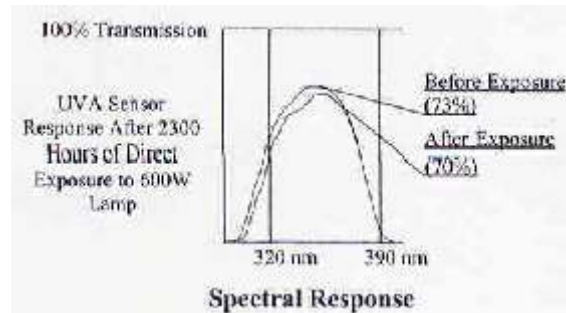
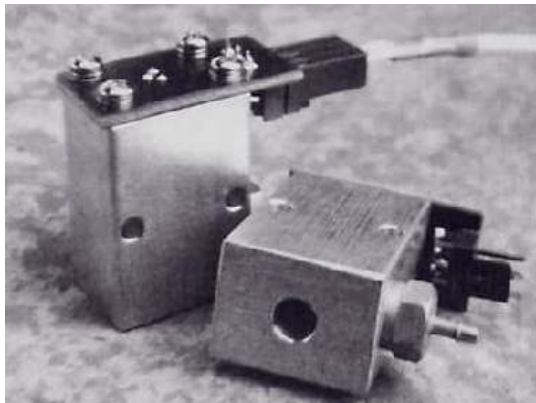


# Compact Sensor



## Introduction

The new compact sensor from EIT is a breakthrough in UV sensor technology. It is extremely resistant to UV solarization in even the most intense UV fields. The degradation of the optical component of UV sensors in the presence of an UV field, known as solarization, is virtually eliminated in the new design.

Innovative design (patent applied for) and use of proper materials in the sensor make it possible for the sensor to view an intense UV source for thousands of hours without perceptible solarization.

The Compact Sensors are very small in size; ruggedness and hermetic sealing make it ideal for use in many industrial applications.

Optional air purge capability allows operation in less than ideal environments. The sensor's very small size lends itself to installation on the back of a lamp reflector, and its ability to withstand high UV intensities provides very long life in that position.

The Compact Sensor generates a signal proportional to the intensity of UV light impinged on the face of the sensor. This signal is fed via a 10' shielded cable to one of four display options - EIT's Multibrite, Online UV intensity Display Module, DIN Rail Mount UV Intensity Monitor, or Battery-Powered Display Module. When the UV lamps and reflectors are new, the display is set to show a 100% relative intensity. A decrease in the displayed percentage shows the gradual degradation in the UV lamp's output compared to its output when new. The relative intensity values can be converted to absolute intensity values in Watts per square centimeter by comparing the percentage to an intensity reading from an EIT radiometer.

The sensor offers great flexibility in installation. Since solarization is no longer a major concern, the sensor can be mounted to directly view any section of the lamp. Many applications allow installation where the sensor can monitor the UV light either directly from the lamp or from its reflector. In space-limited applications, the sensor can even be mounted behind the reflector.

The sensor package is sealed to protect its optics from humidity and harmful vapors. The input portion of the sensor's housing is ported to allow purging with air or nitrogen to keep the sensor window clean in dirty or hostile environments.

The Compact Sensor is available in two standard types. The CS type is Compact Sensor only. The FS type also includes a 'lamp on' detector. Both sensor types are available in any one of four specified UV bandwidths.

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### Features

- Improved optical design to virtually eliminate solarization
- Small profile for installation in tight spaces
- Squares body design for easier mounting
- Can be used on most lamp makes and types
- Sealed optics to prevent contamination - optional air purge
- Available with a “lamp on” detector
- Compatible with any of EIT’s monitoring equipment

### Applications

- Monitor UV lamp intensity
- Know when to perform preventive maintenance and cleaning on lamp system
- Determine when to replace lamps
- Use for data collection Statistical Process Control (SPC/SQC)

### Specifications

Dimensions: CS Type 0.57” x 1.35” x 0.95”  
(1.45 x 3.43 x 2.38 cm)  
FS Type 1.0” x 1.53” x 1.46”  
(2.54 x 3.83 x 3.66 cm)

UV Bandwidth: UVA (320-390nm), UVB (280-320nm),  
UVC (250-260nm), or UVV (395-445nm)

### Housing

Material: Aluminum

Weight: CS Type 0.8 oz. (22.68 g)  
FS Type 1.5 oz. (42.52 g)

Cable: Teflon, shielded, 10’ (3meters)

Connector: HP-1 BNC for Online UV Intensity Display Module or Multibrite  
HP-2 Tinned Lead for DIN Rail Mount UV Intensity Monitor  
HP-3 3-pin Molex for Battery Powered Display Module

Temperature Range: 0-100°C

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