Sensors • Germicidal UVC Sensor

PWA254

Measures Germicidal UVC Radiation from Sterilizing Light Sources

Applications

- Environmental Monitoring
- Disinfection of Plant Effluent

Features and Benefits

- Multidirectional Measurement
- Excellent Cosine Response
- Teflon Casing
- High Sensitivity
- Adjustable Range and Sensitivity
- Resistant to Most Dolvents
- Standard Thread for Easy Mounting
- NIST Traceable Calibration

Germicidal disinfection systems are only as good as the effectiveness of the germicidal lamps used. With time, even the best UV system will show a significant degradation in its ability to disinfect. Germicidal lamp output decreases as the lamp ages and/or becomes dirty through use.

The PWA254 germicidal UVC sensor is able to continuously monitor the output of the lamps and when used with a data acquisition system, can provide an indication of the effectiveness of the lamps as they age.

The graphs show the cosine error comparing a flat end sensor and the PWA254 with it's unique cosine correction design. This means that the radiation it is detecting is being more accurately measured.

SOLAR® LIGHT

Specifications	
Sensor Output	0-5 VDC
Cable Length	3 ft (914 mm) (other lengths available)
Operating Environment	32 to 120°F (0 to +50°C) Splashproof
Max. Diameter	0.96” (24.3 mm)
Length	2.5” (64 mm) 3.75” (95.3mm)
Weight	1.2 oz. (35gm)
Ordering Information	
PWA254	Germicidal UVC Sensor

SL/Sensors_PWA254 01/2015

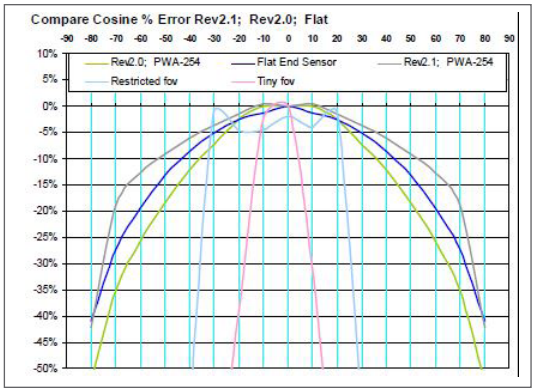

Fig. 1. Cosine

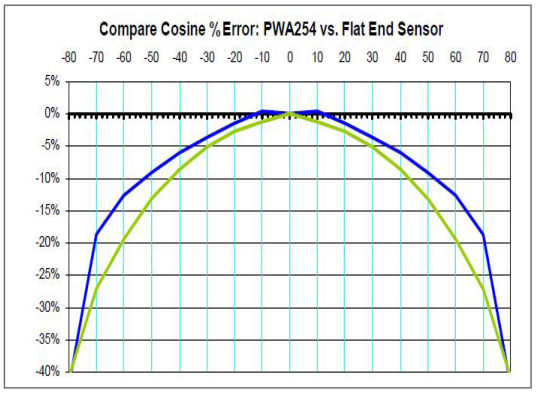

Fig. 2. Cosine

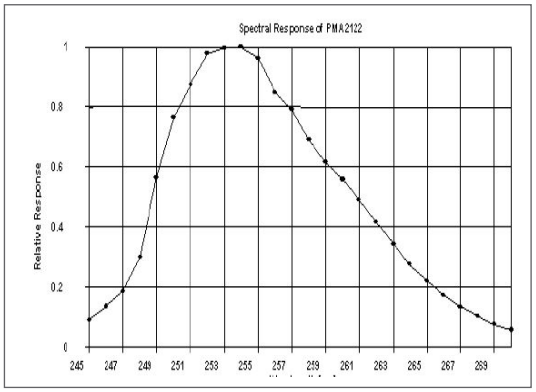

Fig. 3. Spectral Response