



**METER**

## SU-221 UV SENSOR



### **Measure total radiation from 300 to 400 nm**

If you need easy, accurate, affordable UV-A radiation measurements in outdoor environments, horticulture operations, and lab settings; the low-cost SU-221 Ultraviolet (UV) Sensor is a scientific-grade sensor that provides the accuracy you need for less.

### **Use it absolutely everywhere**

The Apogee SU-221 digital UV sensor is conveniently small and lightweight. And it's sensitive to a wide spectral range, 300 to 400 nm, which spans the solar UV range and UV output range of electric lamps.

### **Simple, self-cleaning, and tough**

To save you time, this rugged UV sensor is engineered to be seriously low maintenance. It has a tough anodized aluminum body with fully-potted electronics. The patented domed-shaped sensor head facilitates runoff of dew and rain, keeping the detector clean and minimizing errors caused by dust blocking the radiation path.

### **Designed to simplify your workflow**

To simplify your life even more, we've made the Apogee UV sensor turnkey with the ZL6 data logger and ZENTRA Cloud. Just plug the sensor into the logger and you're up and running-no programming required. Bluetooth makes it easy to check the settings ensuring everything is just right. ZENTRA Cloud lets you see and share near-real time data with everyone on the project, from wherever you are, using any internet-connected device. No more trying to chase down the person who downloaded the data on an unknown hard drive.

### **More coverage for less**

Backed by an industry-leading four year warranty and METER's powerful ZENTRA system, Apogee's ultraviolet sensor provides an easy, trustworthy, cost effective measurement of UV-A radiation, so you can get way more coverage with way less hassle.



**BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ**

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#### Specifications

<b>Calibration uncertainty</b>	±10%
<b>Measurement range</b>	0 to 100 W m <sup>-2</sup>
<b>Measurement repeatability</b>	Less than 0.5%
<b>Long-term drift</b>	Less than 2% per year
<b>Non-linearity</b>	Less than 1%
<b>Response time</b>	0.6 s, time for detector signal to reach 95% following a step change; fastest data transmission rate for SDI-12 circuitry is 1 s.
<b>Field of view</b>	180°
<b>Spectral range</b>	300 to 400 nm (wavelengths where response is >10% of maximum)
<b>Spectral selectivity</b>	Less than 10% from 412 to 682 nm ± 5 nm
<b>Directional (Cosine) response</b>	± 2% at 45° zenith angle, ± 5% at 75° zenith angle
<b>Temperature response</b>	Less than 0.1% per °C
<b>Operating environment</b>	-30 to 85°C; 0 to 100% relative humidity
<b>Dimensions</b>	30.5 mm diameter, 37 mm height
<b>Mass (5 m cable)</b>	140 g
<b>Cable length</b>	5 m
<b>Cable</b>	M8 connector (IP68 rating) to interface to sensor housing; 5 m of four conductor, shielded, twisted-pair wire with a TPR jacket; ZL6 stereo plug termination
<b>Data logger compatibility</b>	METER EM60 series, ZL6 series, ZSC, ProCheck