



Application Bulletin – Model 6.0 Solarmeter

Date: Sep 22, 2015

| Model | Description | Yes | No |
|-------------------|---|--|----------|
| <p>6.0</p> | <p>UVB Range 0-19.99 mW/cm²</p> <p>Original UVB model for measuring UVB from tanning lamps and from any other UV source emitting high levels of broadband UVB including dermatology phototherapy lamps and full sunlight.</p> <p>Application Notes:</p> <ol style="list-style-type: none"> 1. Measure UVB intensity from sunbed lamps. 2. Measure UVB intensity from phototherapy lamps. 3. Check UVB intensity from full outdoor sun. 4. Calculate UVB% using Model 5.0 for Total UV. $B/A+B = \%B$. 5. Calculate UVA using Model 5.0 for Total UVA+B. $A+B - B = A$ 6. Check UVT acrylic transmission in tanning beds. 7. Check low-level UV in microWatts/cm² (Please use Model 6.2) <p>Procedure:</p> <p>Press and hold push button switch while aiming top sensor at light source.</p> <p>The reading represents instantaneous intensity at the distance meter sensor is being held from the source. Moving the meter closer to UVB source will increase reading. Hold meter at location of exposure to determine intensity at the subject position (person or object) of concern..</p> <p>For tanning beds hold meter on bottom acrylic (bench) pointing up at closed canopy in center of bed for overall reading. Also can check individual lamps at acrylic to see if there are any readings much lower than the rest. In either case, allow lamps to warm up about 5 minutes to stabilize. When readings fall 25-30% below new readings the lamps need replacement.</p> <p>UVT acrylic on tanning beds: Measure UVB with acrylic removed and again with acrylic installed. New acrylic will absorb about 10% of UVB. If more than 20% is blocked the acrylic should be replaced soon.</p> <p>For phototherapy UVB booths, Hold meter at distance of recommended exposure. As lamps age, the readings will decrease over time. When they fall 25% below new readings they should be replaced.</p> | <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> | <p>X</p> |