



Application Bulletin – Model 5.0 Solarmeter

Date: Aug 24, 2015

| Model | Description | Yes | No |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------|
| <p>5.0</p> | <p>Total UV (A + B) Range 0-199.9 mW/cm²</p> <p>Original model for measuring UV from tanning lamps and from any other UV source emitting high levels of broadband UVA+B like curing lamps and sun light.</p> <p>Application Notes:</p> <ol style="list-style-type: none"> 1. Measure UV intensity from sunbed lamps. 2. Measure UV intensity from curing lamps. 3. Check UV intensity from full outdoor sun. 4. Measure UV intensity from PUVA therapy lamps. 5. Check low-level UV in microWatts (Please use Model 5.7) <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 UV 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 reading much lower than the rest. In either case, allow lamps to warm up about 5 minutes to stabilize. For curing lamps hold meter at distance of workpiece to be cured. UV curing is a speed curing process in which high intensity ultraviolet light is used to create a photochemical reaction that instantly cures inks, adhesives and coatings.</p> <p>Non destructive testing for cracks involves using UV light in the 365 nm peak range (same as Model 5.0 peaks at). Generally the lamps should emit at least 15 mW/cm² to allow phosphor coatings to make cracks visible.</p> <p>Industry “rule of thumb” is to replace lamps when intensity readings fall 25-30% below new lamp readings.</p> | <p>X</p> <p>X</p> <p>X</p> <p>X</p> | <p>X</p> |