



# Range of LightScout Quantum (PAR) Meters

## Product Images



## Short Description

PAR is a more valuable measurement than foot-candles as it measures only the light used by plants for photosynthesis.

## Description

We offer PAR light meters in variety of configurations for your convenience. Their range is 0 to 2,000  $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$  measuring photosynthetically active radiation (PAR) from 400 to 700 nm.

The light that drives photosynthesis in plants is Photosynthetically Active Radiation, or PAR light. This is also referred to as Quantum light, because it is measured in units of moles striking an area over time. Though PAR light ranges from 400 to 700nm, the region brightest to human eyes is the area of least effect on plants. Measuring quantum light can tell you if your plants are getting a sufficient amount of usable light.

Click [here](#) for the Measuring Light brochure to learn more about how various parts of the light spectrum affect plant health and growth.

## Additional Information

Ideal For	Gardeners, Agronomy
Indoor Unit	<p>3415F: Accuracy = The Field Scout Light Meters are accurate to <math>\pm 5\%</math>. Cosine correction is accurate to <math>\pm 3\%</math> at <math>45^\circ</math>, and <math>\pm 7\%</math> at <math>80^\circ</math>. Quantum Light Meters are calibrated to display PPFD. The meters display PPFD in the range 0-1999 <math>\mu\text{mol m}^{-2} \text{s}^{-1}</math>.</p> <p>3415FSE and 3415FXSE: Accuracy = The FieldScout Light Meters are accurate to <math>\pm 5\%</math>. Cosine correction is accurate to <math>\pm 3\%</math> at <math>45^\circ</math>, and <math>\pm 7\%</math> at <math>80^\circ</math>.</p> <p>3415FQF: Accuracy = The FieldScout Light Meters are accurate to <math>\pm 5\%</math>. Cosine correction is accurate to <math>\pm 3\%</math> at <math>45^\circ</math>, and <math>\pm 7\%</math> at <math>80^\circ</math>.</p> <p>The 3415FQF Quantum and Foot-Candle Meter measures both PAR light, and light intensity as perceived by the human eye. The eye perceives light of approximately 560 nm most strongly, with perception half that at 500 and 600 nm.</p> <p>The meters display values in the range 0-1999. This must be multiplied by 10 to obtain Foot-Candles, so the meter range is 0-19990 Foot-Candles. Since 1 Foot-Candle is equivalent to approximately 10.8 lux, multiplying the meter reading by 108.</p>
Power	Battery only

# Products in this set



## LightScout Quantum Meter 3415F

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## LightScout Solar/Electric Quantum Meter 3415FSE

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## LightScout Dual Solar/Electric Quantum Meter - with External Sensor 3415FXSE

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## LightScout Quantum and Foot-Candle Meter 3415FQF

Meter measures both PAR light and light intensity as perceived by the human eye.