

Radiometer

Accurately Measure Power or Irradiance



Accuracy

Precision

Control



The EXFO Radiometer is ideal for a wide range of applications from manufacturing and assembly process control to general radiometry. This efficient unit combines more features than any other portable radiometer on the market to give power, precision and portability.

Precision Technology that's Light Years Ahead

- 1. Lamp Output Adapter**
Rigid adapter that directly interfaces unit and light source; measures output at source.
- 2. Light Guide Port**
Accepts industry standard light guides and automatically senses light guide diameters.
- 3. Proximity Measurement Adapter**
Transmits light into unit; ideal for remote light sensing applications.
- 4. Bandpass Filters**
Filters available for a range of applications; simple, external replacement.
- 5. Control/Display**
User friendly controls and comprehensive display for easy unit operation and maintenance.



Accuracy

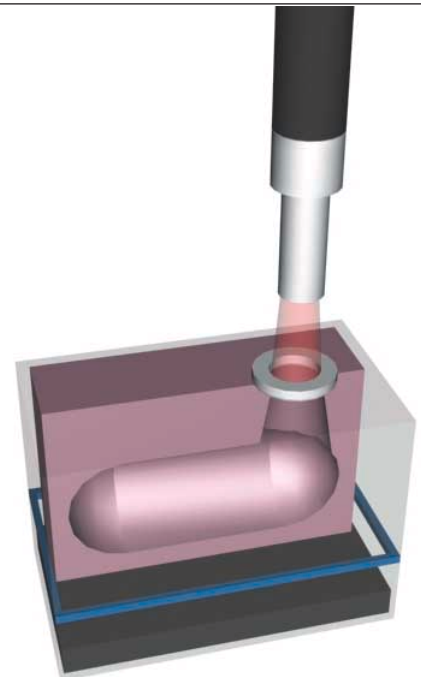
The EXFO radiometer includes a proprietary detector system for accurate broadband measurement between 250 – 600nm.

Precision

The EXFO radiometer is auto-ranging to maintain precision over the full range. Externally exchangeable bandpass filters, peak hold mode, real-time mode and relative mode allow you to customize the light and measurement for your specific application.

Repeatability

The proprietary optical interface of the EXFO radiometer collects light over a large area and numerical aperture, virtually eliminating beam profile dependence.



Features

Benefits

Accurate broadband measurement between 250-600nm	Suitable for many different light sources
Measures power or irradiance	Allows for industry specific measurements
Optical interface; collects light over a large area and numerical aperture (NA)	Eliminates beam intensity and radiance dependence; significantly improves measurement accuracy
Externally exchangeable bandpass filters	Selectable wavelength ranges; fast, simple filter changes
Auto-ranging	Maintains precision over full range
Peak hold mode	Identifies, measures and displays maximum value in changing signals
Real-time mode	Allows tracking of varying signals
Relative mode	References all measurements to a benchmark value
Fits standard light guides (3mm, 5mm, 8mm)	Automatically senses the diameter of industry standard light guides
CE marked; complies with IEC, Canadian and US standards	Ready for use worldwide
Calibration traceable to NIST*	Quality assurance

* Using blank removable filter

EXFO carries a full line of replacement parts, supplies and accessories. Our team of light-based technology experts can recommend a light delivery system for any spot curing challenge.

Proximity Measurement Adapter

The proximity measurement adapter allows the user to obtain accurate application specific power or irradiance measurements in flood geometry. Measurements are done by placing the emitting end of the light directly over the top of the Proximity adapter inserted into the EXFO radiometer. Provided there is a minimum of 50mW entering the adapter, the radiometer will automatically turn on.



Flexible Spectral Measurement

The EXFO radiometer can accurately measure power or irradiance over a broad spectral range. Externally exchangeable optical filters allow the unit to focus on specific wavelength bandwidths.

Optical Filters*

- 250-450nm
- 320-500nm
- 365nm
- 320-390nm
- 400-500nm

* Unit accuracy may change when using optional filters due to normal transmission losses.



Specifications

Wavelength Range:	250-600nm
Maximum Range:	Power: 10 - 15,000 mW Irradiance: 50 - 225,000 mW/cm ²
Resolution:	Power: 10 mW Irradiance: 10 mW/cm ²
Accuracy:	+/- 5% typical; +/- 10% maximum*
Auto-ranging:	Power: 10 - 990 mW; 1.0 to 15.00 W Irradiance: 50 - 990 mW/cm ² ; 1.0 to 225 W/cm ²
Removable Filters:	Standard: blank Optional: 250-450nm, 320-500nm, 365nm, 320-390nm, 400-500nm
Battery:	Standard 9-volt
Battery Life:	2 years, typical (intermittent use)
Functions:	Power measurement, irradiance measurement, automatic light guide (size) detection, relative mode, over range indication, low battery indication, peak hold measurement, real-time measurement, auto turn on/off, replaceable filters
Dimensions:	L x W x D / 5.22" x 3.8" x 1.5" / 13.3 x 9.7 x 3.8 cm
Weight:	0.90 lbs./400 g

* Unit calibration recommended every six months. This service is available through EXFO Photonic Solutions Inc.

Contacts

EXFO PHOTONIC SOLUTIONS TOLL-FREE	2260 Argentia Road Tel.: 1 800 668-8752	Mississauga (Ontario) L5N 6H7 Email: bdg.toronto@exfo.com	Tel.: 1 905 821-2600 . Fax.: 1 905 821-2055
CORPORATE HEADQUARTERS www.exfo.com	400 Godin Avenue	Vanier (Quebec) G1M 3G7 CANADA	Tel.: 1 418 683-0211 . Fax.: 1 418 683-2170

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Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

