

Innovation that Saves

LUX METERS



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A Goldilux **Lux Meter** measures **illumination levels (lux)** in workplaces such as mines, workshops, tunnels, and plant areas. It ensures lighting is adequate for safety and compliance with mine health and safety regulations. Goldilux meters are known for being **durable, accurate, and simple to operate**, with digital readouts for quick assessments.

They are durable, easy to use, and provide reliable readings to ensure adequate lighting for safe operations. The value proposition is that they help organisations identify poor lighting conditions before they become safety hazards, improve worker productivity, and ensure compliance with health and safety standards, ultimately reducing accidents caused by insufficient visibility.

The Autoranging Light Meter has a very stable solid state sensor for visible light in the spectral range of 410 to 680 nm. The spectral response curve has the best fit to the ideal spectral response curve determined by the CIE. The meter can be used with separate probes.

Probes allow the measurement of the visible range cosine probe as well as for UV-A, UV-B and UV-C light sources making this a flexible and versatile light and radiation measurement system.

Light meters without sensor are available and serve as displays connecting the probes with a 3m cable for different measurement geometry and set-up.



FEATURES

Provides accurate illumination readings in various work environments.

Simple digital interface for quick assessments.

Durable construction for demanding operational conditions.

These features ensure work areas are properly lit for safety and productivity, solving the problem of accidents and inefficiencies caused by inadequate lighting



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WHY MINES CHOOSE LUX METERS

1 Light where it matters most. Safety where it counts.

Adequate lighting is critical underground — poor visibility increases accidents and reduces productivity. Lux Meters provide **reliable, accurate illumination readings**, helping mines optimise lighting for safety and efficiency.

2 Durable and easy to use

Durable and easy to use, these meters allow quick assessments in tunnels, stopes, and plant areas. Using data with **SmartMine**, lighting can be monitored, recorded, and adjusted to maintain optimal working conditions.

Bottom line

Higher safety, faster emergency response, compliance assurance, and peace of mind.

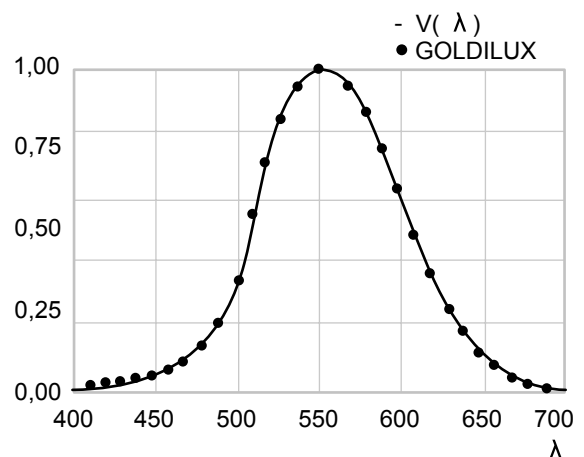
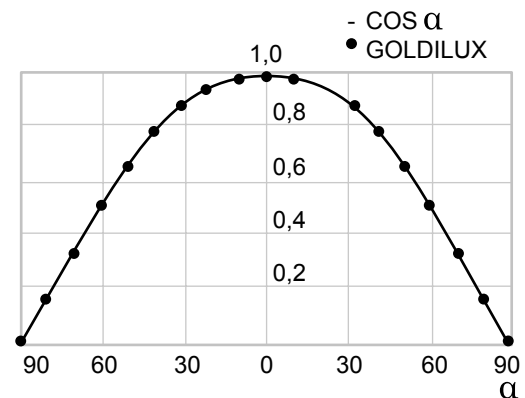
ADDITIONAL FEATURES

- Robust, lightweight, hand-held dedicated unit
- Excellent stability over extended time periods
- Excellent linearity
- Versatility through fully interchangeable probes
- Wide measurement range of illuminance
- Digital display
- Hold function on meters and readout units
- Powered by single, replaceable battery
- Standard with calibration certificate, legal backing for measurements
- One year manufacturers guarantee

The Goldilux LED LUX is an illuminance meter specifically calibrated for high accuracy measurement of LED lighting. Guaranteed performance for white LEDs with colour temperature from 2 700k to 6 500k. The instrument is issued with a Certificate of Conformance. An accredited certificate endorsed by an ISO 17025 lab is available as an option.

All the usual features of quality of the Goldilux light meter also apply to the LED LUX.

- Stability
- Linearity
- Digital display
- Measuring range & resolution
- 1 Year manufacturers guarantee



SPECIFICATIONS

Measuring Functions	Illuminance
Measuring Range	0-20 000 LUX (GAL-2L) 0-200 000 LUX (GAL-2H, light probe)
Accuracy	3% uncertainty and better
Readout	4 1/2 digit LCD display
Temperature Range	0 to 50 °C
Hold Function	Hold button
Power Source	One PP3 9V battery, preferably alkaline
Battery Life	Approximately 180 hours for alkaline battery
Dimensions	150 x 80 x 35 mm (basic unit)
Mass	Display unit: 220 g (with battery) Probe: 85g
Accessories	Plug-in remote detectors (probes), packing case, instruction manual.
Calibration	Certificate of Conformance

Parameter	Symbol	Value
V (λ) match	f_1^1	<3>
UV Response	u	<0,1%
IR Response	r	<0,1%
Cosine Response	f_2	<1,5%
Linearity Error	f_3	<0,1%
Error of Display Unit	f_4	<0,1%
Temperature Coefficient	(T2=5°C)	<-0,2%/°C
Fatigue	f_5	<0,1%
Modulated Radiation	f_7	<0,1%
Polarisation	f_8	<0,1%
Range Changes	f_{11}	<0,1%
Crest Factor	c	<2
Lower Frequency Limit	f_1	<40 Hz
Upper Frequency Limit	f_u	>50 kHz

Quality parameters, as recommended by the International Commission of Illumination (CIE)*

*(CIE) Publication No 69 (1987) "Methods of characterising illuminance and luminance meters."

ACCESSORIES

- Instruction manual
- Protective cover for detector
- Carry pouch (optional)

INDUSTRIES

- Mining and geology
- Environmental hygiene
- Medicine and health
- Agriculture
- Architecture
- Safety and security
- Marketing and advertising displays
- Street lighting
- Sports
- Hobbies and domestic

CALIBRATION

Instrument is calibrated according to International standards and issued with accredited calibration certificate.



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