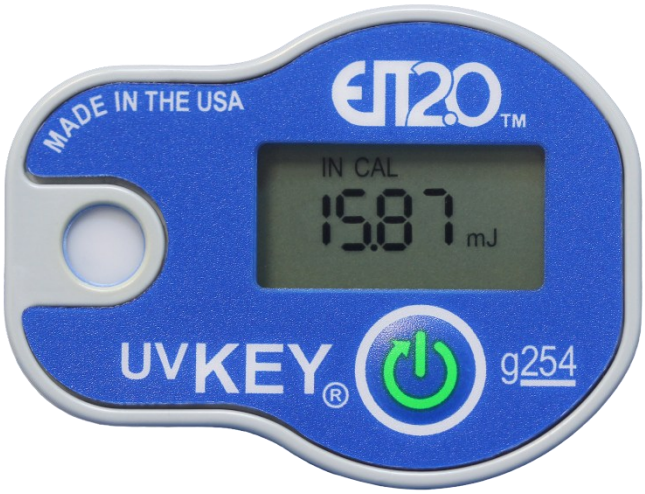
EIT 2.0™ LLC UVKEY™ g254

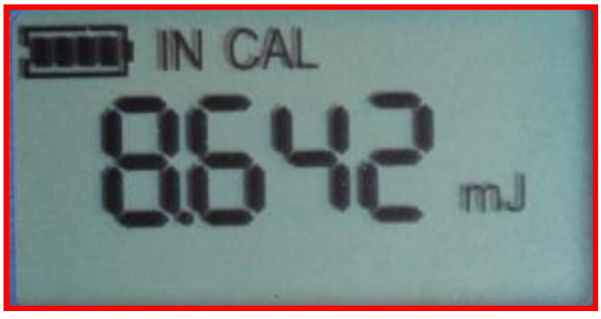


INTRODUCTION

The UVKEY™ g254 is a ultraviolet UVC radiometer optimized for 254 nm UV germicidal measurement in applications requiring high control of UV energy (dose) measurements. Targeted applications include hospitals, medical offices, long term care facilities and research.

UVKEY FEATURES

- Single button operation which makes it easy to use
- Small size makes it easy to attach and minimizes shadowing of an area
- Provides accurate, NIST traceable numerical display of the dose
- Eliminates color interpretation by the user and lot-to-lot variations associated with radiochromic films
- UVKey is an affordable opto-electronic solution that provides excellent matching and repeatability, instrument-to-instrument, source to source and run-to-run
- The UVKey is IP67 sealed to protect it from dust and fluid splashes
- Subscription plans available



The EIT 2.0 UVKey can be used to easily confirm the numerical dose value of UVC in an operating room (left) and in high touch patient areas such as a bed rail (above)

UVKey g254 Product Specifications

Feature	Description
Full Scale Operating Range	10 mW/cm^2
Threshold	60 µW/cm^2 (Typical)
Displayed Energy Value	Values < 1 Joule (0.001-999.9 mJ/cm^2) displayed in mJ/cm^2 Values ≥ than 1 Joule (1.000-999.9 J/cm^2) displayed in J/cm^2
Spectral Response	245-265 nm minimum, Spectral out of band blocking of Optical Density (OD) > 4 average
Spatial Response	Approximately Lambertian (Cosine)
Accuracy	Typically, ± 5% or better; ± 10% of reading plus ±0.2% of full scale
Repeatability	Typically, better than 0.5%; <1% maximum
Calibration	Calibration on low pressure mercury source, NIST Traceable
Sample Rate	1 Hz (One reading/second)
Display-Interface	Single button operation 4 Digit LCD display of energy (mJ or J/cm^2), floating decimal point
Operating Life Time	6 Months from user initialization. There is a one month 'grace' period from time of calibration at EIT 2.0 until the user initializes the unit which does not impact the six month operating life of the unit.
Calibration Validity Period	6 Months or 500 Joules/cm^2 (maximum). The UVKey display will show CAL EXP (Calibration Expired) 6 months after initialization.
Temperature Ranges	Operating: +10°C - +50°C / Storage: 30°C - +70°C
Dimensions/ Weight	Unit size 2.0" x 1.5" x 0.5" (50.8 x 38.1 x 12.7 mm) / 0.7 oz. (19.8 grams)
Battery/ Materials/ Electronics	Lithium Manganese Dioxide Non-Rechargeable/ Thermoplastic Polymer
Electronics / Environmental	IP67 sealed case/ RoHS3 compliant

CE

The UVKey was tested and passed each of the following standards:

- FCC Radiated Emissions Part 15.109 ICES-003: 6.2
- 2014/30/EU: Electromagnetic Compatibility
- IEC 61326-1: 2012

About EIT 2.0 LLC

Originally established in 1977 to provide contract engineering & electronic manufacturing services EIT's UV measurement products which include radiometers and on-line measurement systems have been sold worldwide since 1986. EIT 2.0 LLC was established in 2022 under the same ownership and key management team to focus and accelerate the development of EIT's proprietary UV measurement products. Over 113,000 EIT measurement solutions have been sold to measure LED, broadband and UV germicidal sources.

For more information contact EIT 2.0 or:

EIT Products are designed and manufactured in the USA
Product Specifications Subject to Change without Notice
Product & Educational Videos are available at www.eit20.com

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