



UV Measurement and Process Control Instruments

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EIT 2.0 UV Instruments Supplemental Data Points (May 2023)

EIT 2.0 calibrates instruments to values established by our engineering and calibration engineers. The instrument type, performance, source type and stability of the source are all factored into our established and documented procedures and values used.

If requested on the Service Request Form, EIT 2.0 can provide a Statement of Linearity at no additional charge. The statement confirms that the device is linear across the full scale. We feel that in many cases, the Statement of Linearity is sufficient in place of supplemental data.

Customers will occasionally request that EIT 2.0 check instrument performance at values other than what we have established in our documented procedures. We call these values Supplemental Data Points.

All units returned to EIT 2.0 will first go through a standard calibration after the intake (“as received”) data is collected. We do not calibrate the unit to custom data points but will check the unit performance at these Supplemental Data Points.

We offer Supplemental Data Points when requested as a service to our customers. Supplemental Data Points are collected after the customer unit is calibrated to our standard procedures. EIT 2.0 can also collect the Supplemental Data Points during the intake (“as received”) process as well as after the standard calibration of the unit.

There is an additional charge for Supplemental Data Points, and it is based on the time involved to collect and report the data. The achievable target values, tolerances and units vary by product family and are discussed below.

Notes

1. Supplemental Data Points must be requested on the Service Request Form each time the unit is returned
2. If the requirements differ from those below, EIT 2.0 will review the requirements and confirm if they can be met
3. There is an additional charge for this service, and it is based on the time involved
4. Supplemental Data Points are collected after the customer unit is calibrated to our procedures
5. EIT 2.0 does not calibrate to custom data points and the unit will have a standard calibration
6. Supplemental Data Points do not change or improve the calibration of the unit.

The Supplemental Data Points are listed in table format on the Calibration Certificate:

UVA	320-390 nm		
Measurement	Reference	Instrument	Deviation
Energy Density	222.2 mJ/cm ²	222.0 mJ/cm ²	-0.09%
Energy Density	307.6 mJ/cm ²	304.0 mJ/cm ²	-1.17%
Energy Density	420.0 mJ/cm ²	417.0 mJ/cm ²	-0.71%

Supplemental Data Point Ranges

The ranges vary based on the instrument family. The most common requested Supplemental Data Point Ranges are listed below.

Power Puck II/UviCure Plus II

High Power: UVA, UVB, UVV 100-1500(+/-15%)/UVC 30-120 (+/-15%); All values in milliJoules/cm²

LEDCure

L-Bands: 0.230- 6.0 (+/- 15%); All values in W/cm²

SpotCure

Supplemental Data Points for our SpotCure units generate the most requests.

- The Standard range SpotCure is linear with respect to Irradiance from 0 W/cm² to 20 W/cm².
 - If requested on the Service Request Form, this statement can be added at no charge
- The intake (“as received”) range for SpotCure is between 10.00-19.99 Watts.
 - This intake range variation is based on the natural variation of the calibration source.
 - If requested, EIT 2.0 can perform Supplemental Data Checks during the ‘as received’ intake process
- EIT 2.0 uses three points in the following ranges to calibrate the Standard SpotCure:
 - 1st point 10-19.99 Watt/cm²
 - 2nd point 5-9 Watt/cm²
 - 3rd point 2-4 Watt/cm²
 - By default, the unit is also checked at 0.0 Watt/cm²
- Calibration points in the above three ranges give an optimum calibration that meets all unit specifications.

EIT 2.0 offers supplemental data in the form of Watts for SpotCure.

- SpotCure Supplemental Data points (values in Watt/cm²) are achievable in the following ranges:
 - 1-8 (+/- 0.5) Watt/cm²
 - 8-17 (+/- 1) Watt/cm²
- If you want a point guaranteed above 12.5 Watts (Post Calibration) on the Calibration Certificate, please request at value of 13.5 Watts +/-1Watt on the Service Request Form.

Please contact EIT 2.0 (calibration@eit20.com) to discuss specific requests or requirements outside of the values listed above.