

1 sun checker for solar simulator

CS-0

CS-0 is an user-settable 1 sun checker to keep up 1 sun illumination of your solar simulator.

It enables checking the change of light intensity due to degradation of lamp over time.

*Users have to set 1 sun value initially.

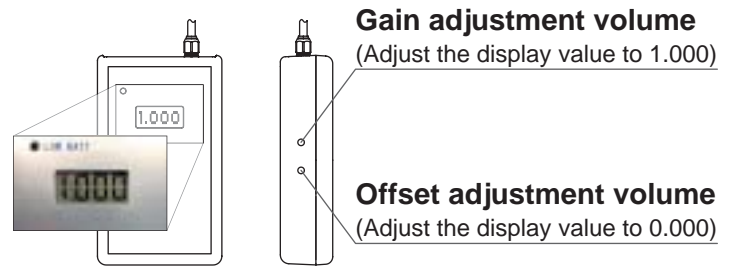
Features

- Quick check of a light intensity
- Simple digital display
- Battery-operated palm-size unit
- Analog output is available



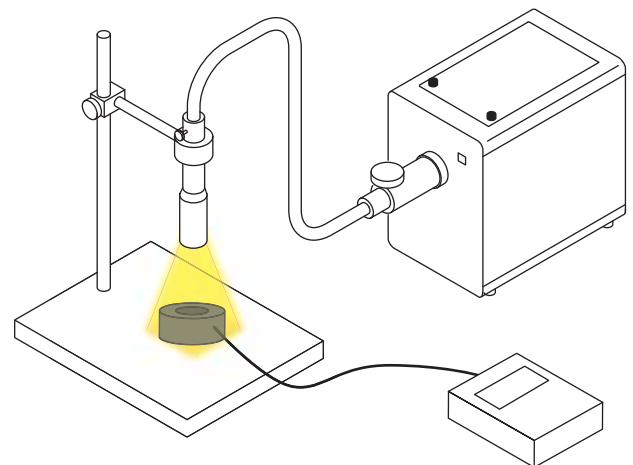
How to set 1 sun?

1. Shade a sensor head, and set the display value to "0.000" by offset adjustment volume.
2. Illuminate with 1 sun by your solar simulator to the sensor head, (1 sun light intensity has to be confirmed in advance by the user.) and set the display value to "1.000" by gain adjustment volume.



After the initial settings, you can adjust the light intensity of your solar simulator according to the value of CS-0 to keep up 1 sun illumination.*

*Spectral curve is not considered.



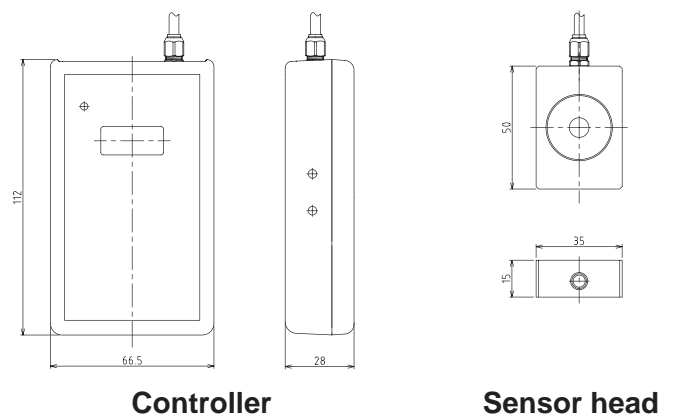
Specifications

Model	CS-0 (general-purpose), CS-20 (for HAL-320), CS-30 (for HAL-C100)	
Display	LCD	Digital 3.5 digits
	Display range *1	0.000 - 1.999 (SUN)
	Over range display	1._ (_ is blank)
	Measurement accuracy	$\pm 2\% \pm 2\text{digit} \pm 0.4\text{digit/}$
Sensor head	Light receiving element	Silicon photo diode
	M27 thread	Filter holder applied part *2 Usable filter size: 25mm dia. / Thickness: below 6mm
Monitor output	Output range	1mV/digit (Above 2V is not covered under warranty)
	Maximum saturation voltage	Below +5V
	Connected load	More than 100k Ω , less than 500pF
	Output accuracy	Display value $\times 1V \pm 2\% \pm 2mV$
Power source	006P(9V) battery x 1	
Fuse	250mA	
Recommended environment	Temperature	23 \pm 5
	Humidity	30 - 80% (Avoid condensation)
Size / Weight	Controller	66.5(W) x 112(D) x 28(H)mm 190g
	Sensor head	35(W) x 50(D) x 15(H)mm 60g
Standard accessory	3.5mm dia. mini plug cable	

*1 The display value is the relative value for the preset "1.000", which does not guarantee both the spectral irradiance of your solar simulator and any absolute values.

*2 Filter holder is optional.

Dimensions



Controller

Sensor head

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