admesy

ADVANCED MEASUREMENT SYSTEMS

SPECIFICATIONS

steropes

light source

Steropes: stable controlled light source

Obtaining good measurement results requires good and stable lighting. With this in mind Admesy developed the Steropes LED light source, which is a stable, accurate light source controlled by a build-in colorimeter resulting in a very high stability of the light output.

With the Steropes the user is certain to have a light output at 0,1% accuracy. Combined with our colorimeters or spectrometers the stabilized light of the Steropes offers the best measurement results.

Highlights

- Ultra stable light source with internal regulation
- USB and RS232 communication interfaces controlled light output
- Ultra-fast stabilization within 10 ms
- Stand-alone mode available
- Suitable for use in vacuum environments
- Standard in natural white LED, other colours and custom wavelengths are available on request

Steropes general specifications

Interfaces	
USB 2.0	USBTMC compliant, SCPI command set, full speed device USB connection also available on GPIO connector for industrial connection.
RS232	For PC and embedded purposes, using same command set as USB
GPIO	Same command set as USB
Trigger in- & output	5V compliant

Power ratings	Min voltage	Typical voltage	Max voltage	Max current
USB powered	4.75V	5.00V	5.25V	Max. 350mA
DC-adapter powered	8V	9V	12V	Max. 500mA
GPIO powered	8V	9V	12V	Max. 500mA

System information	
Size (HxWxD)	54.6 x 55 x 98 mm
Mounting	4 M4 threat holes on bottom plate 2 M4 threat holes on front side
LED	LED lighting system
Light output	0 – 100% in 0.1% steps
Self-regulating	Light source regulates itself, accuracy of 0.1% over lifetime and over temperature
Stabilization time	Less than 10 ms

Typical spectral sensitivity of Steropes controller

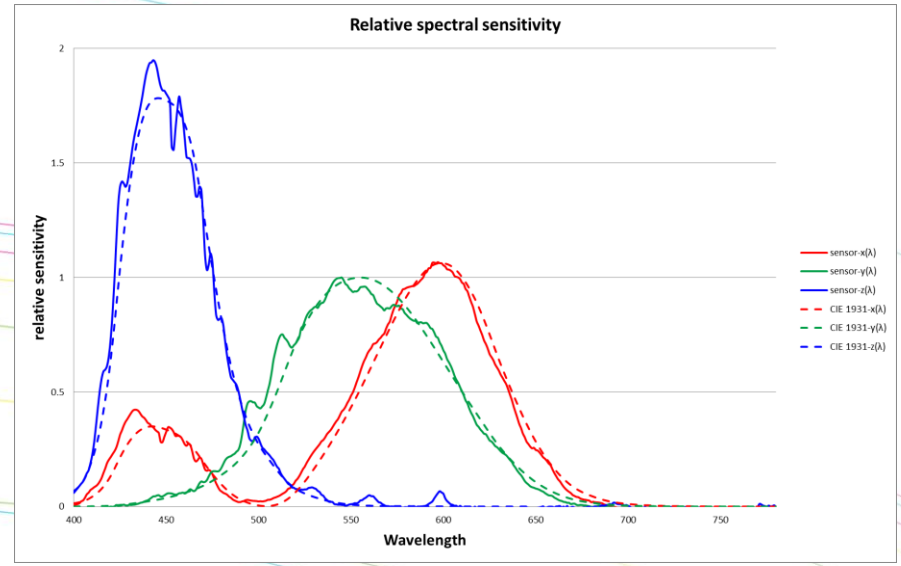


Fig 1 Spectral sensitivity of the Steropes build-in colorimeter.

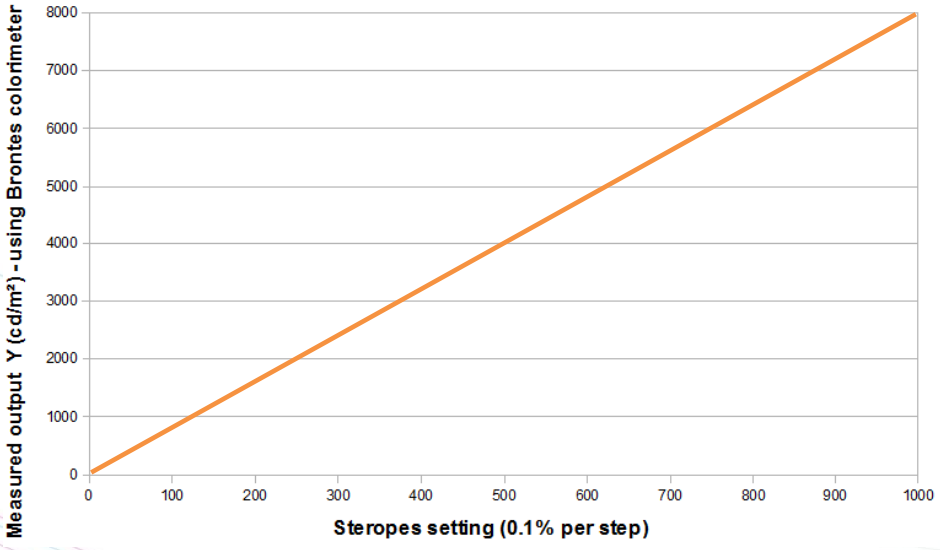
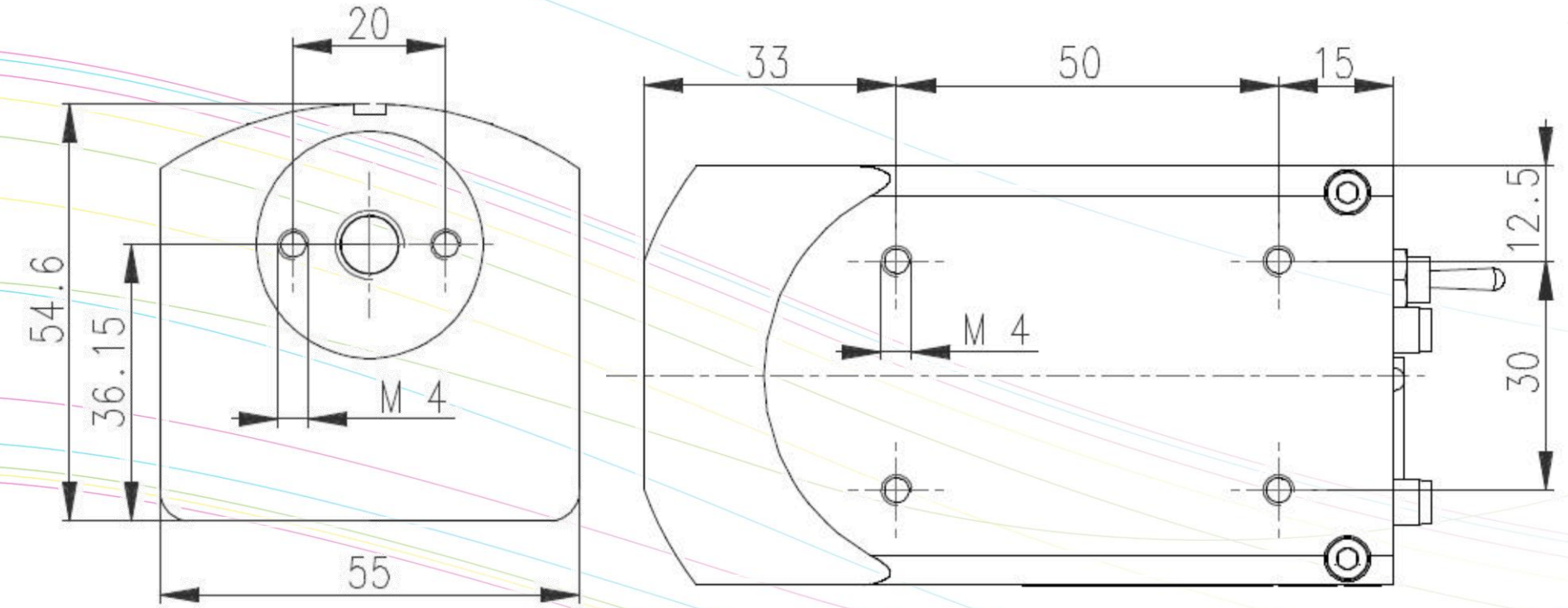


Fig 2 Linearity measured with Admesy Brontes colorimeter.

Steropes dimensions



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