



Smart Sensor SS04



SS04 is a device designed for measurements of illuminance based on a high accuracy photosensor with sensitivity matched to the human eye. SS04 can easily be applied to a smartphone and can turn it into a professional instrument. You can use SS04 to take measurements on 3D objects or, with the supplied light shield, on flat objects. The sensor has a wide measurement range and can capture very short light impulses such as flash strobes.



- Lux Meter
- Light Meter
- Flash Meter

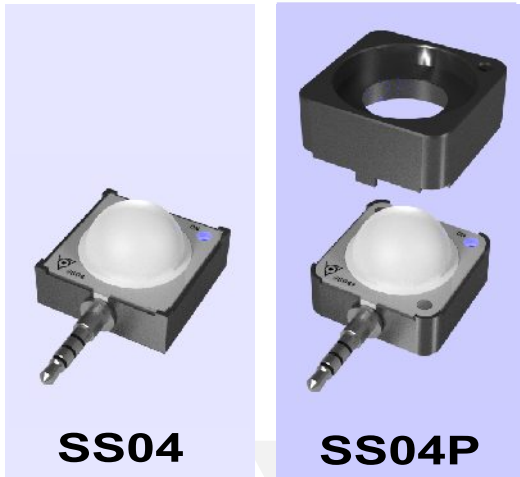
The SS04 device can be interfaced with a smartphone through its standard audio jack connector. Since it is powered by the audio signal, there is no battery on board.

The sensor is offered in basic version (SS04) or plus version (SS04P). The plus version is characterized by having a metal enclosure and a removable light shield accessory.

Ordering codes:

SS04 -
SS04P -

	Connector pinout
C	CTIA (default)
O	OMTP



SS04

SS04P



The SS02 sensor is compatible with the Android app LxMeter. You can download LxMeter from Google Play Store.



Technical specifications

MEASUREMENT RANGE

Operating range: 0...200000 lx (-5...18 EV @ISO100)
Accuracy: $\pm 5\%$ (0.1 EV @ISO100)

FLASH LIGHT

Minimum flash pulse width: 1/10000 s

MEASUREMENT SENSOR

- Silicon photodiode with spectral sensitivity $V(\lambda)$ matched to the human eye
- Hemispherical diffuser

POWER SUPPLY

Self powered by the audio signal

COMMUNICATION INTERFACE

- Audio interface
- Conn. Jack 3.5 mm 4P (CTIA or OMTP compatible)

HOST DEVICE

Device running with Android OS ≥ 2.3 and LxMeter app

OPERATING TEMPERATURE

0°...40°C working (RH max 85% at 25°C)
20°...60°C storage

ENCLOSURE

- Black polyamide PA6 (SS04)
- Black anodized aluminium (SS04P)

DIMENSIONS

- 30 mm x 30 mm x 10 mm
- 30 mm x 30 mm x 20 mm with light shield (SS04P)

WEIGHT

- ~12 g (SS04)
- ~15 g (SS04P)
- ~27 g (SS04P with light shield)