

# **Evacuation Route Photometer** MODEL ERP-105









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# The Hagner Photometer ERP-105 (Evacuation Route Photometer)

## **General Description**

The Hagner ERP-105 Digital Photometer is a precision instrument designed to measure the luminance of photoluminescent signs and materials over a range of 0.01 -20,000 mcd/m2, in the field as well as in the laboratory.

The light sensitive device is a robust silicon photo diode with longterm stability, which with the new patented amplification system is brought to a very high sensitivity. The detector is carefully filtered to produce the same spectral response characteristic as that of the human eye, as defined in.

This remote sensor is supplied with 2 meters of flexible cable. Extension cables can also be used for measurements at any desired distance from the detector.

The instrument has built-in temperature compensation. A `hold' function enables the display value to be retained. A DC-input is provided for a battery eliminator and an analogue output for external instruments such as loggers, computers and recorders.

# **Specifications**

Measurement

range

 $0.01 \text{ to } 19,990 \text{ mcd/m}^2 (0.00001-19.99 \text{ cd/m}^2)$ 

Accuracy Better than ± 3% (± 1 in the last

digit on the display).

Temperature

range

Weight

-5°C to +55°C

Power 1 pc 9V battery, type PP3 alkaline,

or battery eliminator

Calibration

temperature

+22°C

0 to 200mV in steps of 100µV per Output

displayed unit. Load impedance min  $1000\Omega$ .

Measurements Instrument: 150 x 85 x 50 mm

> Detector: Heiaht Ø at front SD17: 60 mm outer = 65 mm inner = 45 mm

SD27: outer = 29 mm 55 mm Inner = 27 mm

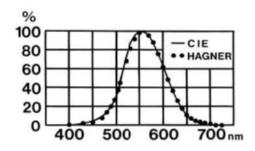
0.65 / 0.45 kg (1.65 / 1.45 kg incl. carrying case & standard accessories)

Magnetic holder for detector. Extra

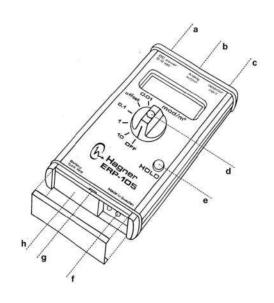
accessories Detector covers for reducing measurement

area.

## **Spectral Sensitivity**



The spectral sensitivity of the Hagner ERP-105 Digital Photometer closely relates to the visibility curve of the CIE standard observer.



#### **Outputs and Controls**

- Plug for battery eliminator
- Battery eliminator. b.
- Detector input d. Range switch
- Hold button e.
- Offset potentionmeter f.
- Slot for removing lower end plate
- Battery compartment



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