Hagner
MEASURES LIGHT

Evacuation Route Photometer

MODEL **ERP-105**

For measurement of low level luminance.

The Hagner Photometer ERP-105 (Evacuation Route Photometer)

General Description

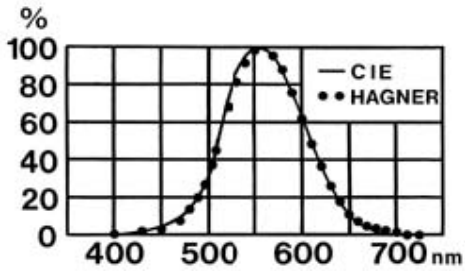
The Hagner ERP-105 Digital Photometer is a precision instrument designed to measure the luminance of photoluminescent signs and materials over a range of 0.01 -20,000 mcd/m2, in the field as well as in the laboratory.

The light sensitive device is a robust silicon photo diode with long-term 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.

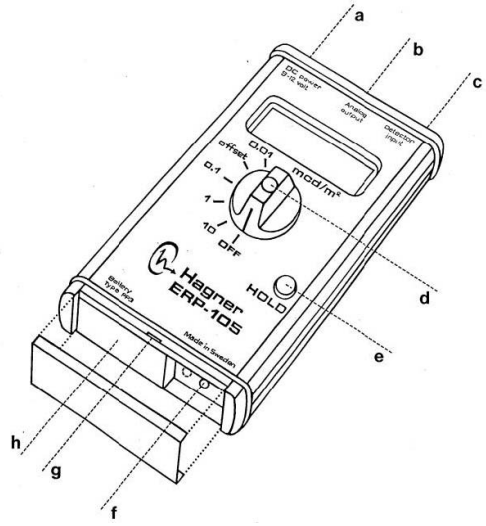
Spectral Sensitivity



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

Specifications

Measurement range	0.01 to 19,990 mcd/m² (0.00001-19.99 cd/ m²
Accuracy	Better than ± 3% (± 1 in the last digit on the display).
Temperature range	-5°C to +55°C
Power	1 pc 9V battery, type PP3 alkaline, or battery eliminator
Calibration temperature	+22°C
Output	0 to 200mV in steps of 100µV per displayed unit. Load impedance min 1000Ω.
Measurements	Instrument: 150 x 85 x 50 mm Detector: Height ∅ at front SD17: 60 mm outer = 65 mm, inner = 45 mm SD27: 55 mm outer = 29 mm, Inner = 27 mm
Weight	0.65 / 0.45 kg (1.65 / 1.45 kg incl. carrying case & standard accessories)
Extra accessories	Magnetic holder for detector. Detector covers for reducing measurement area.



Outputs and Controls

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