

# ERP-105



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/m<sup>2</sup> (0.00001 - 20 cd/m<sup>2</sup>), in the field as well as in the laboratory.

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## General Description

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

This remote sensor is supplied with 2 metres 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 battery eliminator, and an analogue output for external instruments such as loggers, computers and recorders.

## Instrument data for ERP-105

Detector:	Silicon photodiode V <sub>λ</sub> -filtered	
Measurement range:	0.01-19,900 mcd/m <sup>2</sup>	
Accuracy:	Better then ±3% (±1 in the last digit on the display)	
Temperature range:	-5° - +55°C	
Power supply:	1 pc 9V type PP3 or battery eliminator	
Calibration temperature:	+22°C	
Output:	0 to 200mV in steps of 100µV per displayed unit	
Load impedance:	min 1,000 ohm	
Measurements:	150 x 85 x 50 mm	
Detector:	SD17	SD27
Height	60 mm	55 mm
Dia. at front	65/45 mm	29/27 mm
Weight:	0.65 Kg (1.65 Kg incl. carrying case)	0.45 Kg (1.45 Kg incl. carrying case)

Extra accessories: Magnetic holder for detector SD17.

