



Digital UV-A radiometer

EC1 UV-A



EC1-X UV-A

The Hagner Digital Radiometer EC1 UV-A

The Hagner Digital Radiometer, model EC1 UV-A, is a small, handy and extremely easy-to-use instrument for accurate measurement of radiation over a range of 0.001-2,000 W/m². With both automatic zeroing and on/off switch, the only controls needed are a four-position range selection switch and a hold button for retaining the display value.

Operation

To open the lid, press the forward part lightly downward with your thumb and at the same time pull the latch upwards with the first two fingers of the same hand. The Radiometer comes on when the cover is opened and turns off when it is closed. Move the range switch to the range which will give the greatest accuracy and read the display. The hold function keeps the reading on the display until the hold button is released. Full instructions can be found on the inside of the cover.

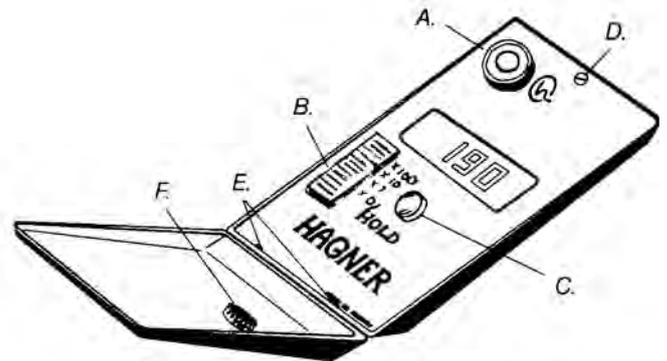
Maintenance

The power source is a standard 9 volt battery. To avoid battery leakage only alkaline batteries should be used. When **LOBAT** appears on the display, it is time to replace the battery. However, the Radiometer can be used for approximately 20 hours longer before replacing is necessary.

Change the battery by removing the screw at the front edge of the cover plate, which permits the plate to be lifted up and removed. When replacing it the lower edge of the plate must fit under the two bosses at the lower edge of the case before it can be closed again. The white plastic disc over the detector maybe cleaned when necessary with a light damp cloth.

Calibration

The Radiometer is carefully calibrated when it is delivered. No recalibration should be necessary under normal use. If for any reason you believe the Radiometer is out of calibration, return it to your stockist or the manufacturer for examination.



The controls and other parts of the Radiometer

- A. Detector
- B. Range switch
- C. Holdbutton
- D. Screw for coverplate
- E. Locking bosses for the coverplate
- F. Magnet that switches the instrument on and off

The Hagner Digital Radiometer EC1-X UV -A

The EC1-X UV-A has been designed for measurement of radiation levels in places where it is important that the operator does not shade the detector. The EC1-X UV-A has the detector connected with a 2 meter long cable. An extension cable can also be connected.

Operation

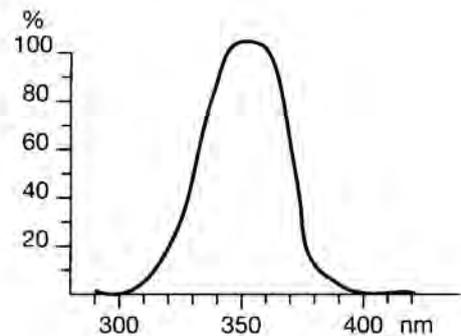
The EC1-X UV-A is used exactly as the EC1 UV-A. The detector can be connected or disconnected without causing any damage to the instrument. Care should be taken to ensure that the cable is not twisted when replacing the cable. It is recommended that the detector is rotated rather than winding the cable around the detector.

PLEASE NOTE

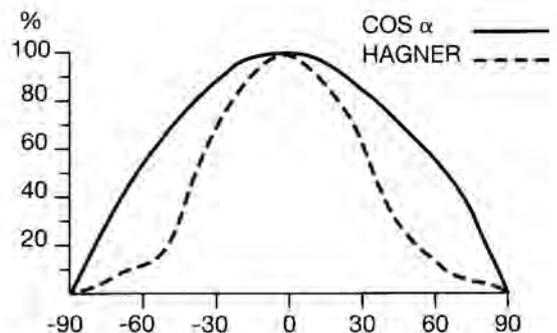
The detector is individually calibrated to the respective instrument and can not be interchanged with other detectors. **Check carefully that the instrument number in the cover corresponds with the number on the detector.**

Instrument data for EC1 UV-A and EC1-X UV-A

Detector	Silicon photodiode
Measuring range	0.001-2,000 W/m ² (0.1-200,000 IIW/cm ²)
Spectral sensitivity	315-380 nm
Accuracy	Better than $\pm 4\%$ (± 1 in last digit)
Temperature drift	<21°C +0.25% / °C >21°C -0.15% / °C
Power supply	9 volt battery type PP3 Alkaline
Dimensions	135x75x35 mm
Weight	019 Kg (EC1-X 0.36 Kg with carrying case)



The spectral sensitivity of the Hagner Radiometer EC1 UV-A.



The angular response of the Hagner Radiometer EC1 UV-A.

B. Hagner AB, Box 2256, SE-169 02 SOLNA, Sweden
 Phone: +46 8 83 61 50 Fax: +46 8 83 93 57
 Email: hagner@hagner.se

زیست تجهیز پویش

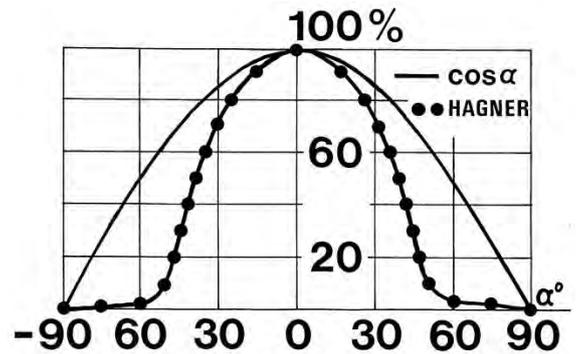
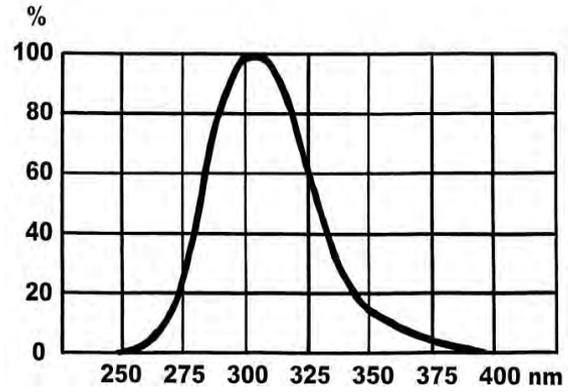
(سهامی خاص)

آدرس: تهران - خ مطهری - خ فجر - ک افشار - پ ۱۶ - ط ۱
 تلفن: ۸۸۸۲۶۷۹۱ - ۸۸۸۲۶۸۷۵ - ۸۸۸۲۷۷۲۳ فکس:
 پست الکترونیکی: info@PooyeshEnviro.ir

Models EC1-X UV-B



The Hagner EC1-X UV-B Digital Radiometer is of the same type as EC1-X UV-A but measures UV-B radiation (265 - 370 nm) over a range of 0.001 - 2,000 W/m². NB: In order to cover the important wave length 310 nm, the detector also has a sensitivity in the UV-A range .



Model EC1-X UV-C



The Hagner EC1-X UV-C Digital Radiometer is of the same type as EC1-X UV-A above but measures UV-C radiation at 253.7 nm over a range of 0.001 - 2,000 W/m².

