

## UV-C LAMP HOUR METER™

### BENEFITS

- Guarantees on-schedule lamp replacement
- Monitor Lamp Elapsed-Run-Time
- LCD Hour Display
- Green-Yellow-Red LED lamp indicator
- 5V Relay output signal for BMS-monitoring
- LED/Signal indicate lamp replacement
- Simple installation at UV-C Lamp install-location or remotely
- One-button annual reset
- 24Vac power adapter included
- 24Vac hard-wire option
- 3 year warranty

UV-C lamps have a useful life of 9,000 hours at which point it is recommended that they be changed. However, keeping track of how long a UV-C lamp has been running can be a challenge for building managers. The *UV-C Lamp Hour Meter* is the first no-nonsense, affordable way to monitor UV-C lamp run-time. It features an LCD screen which displays the elapsed run-time of UV-C lamps from the day they are installed or replaced.

The LCD elapsed hour display is coupled with Green, Yellow and Red LED lights that indicate lamp status. When the lamp run-time reaches 8,041 hours (approx. 11 months), the solid green LED light turn off and a slow intermittent flashing yellow light begins, providing an early indication for the need to order replacement UV-C lamps. Once 9000 hours is reached, the red LED begins a rapid, intermittent flash indicating the need to change the lamps.

Concurrently, the UV-C Lamp Hour Meter provides a 5V signal that can be tied into the building management system (BMS) to provide a remote indication of lamp status and includes a constant 5V signal that changes to a slow-intermittent signal and then a rapid-intermittent signal as the lamps reach 8,041 hours and 9,000 hours respectively.

The UV-C Lamp Hour Meter has a dynamic memory, ensuring it maintains an accurate elapsed hour count, even if power is lost.

### Application:

The UV-C Lamp Hour Meter is easily installed, virtually, anywhere. It can be located with the UV-C lamps, or, in the building manager's office. While the system comes with a 24V wall-adaptor, it can also be hard-wired to available 24V power. The signal relay connections for BMS integration provide a 5V constant signal which changes to a 1Hz 5V signal at 8,041 hours indicating time to reorder lamps for the impending change-out. The signal changes to a 3Hz 5V signal when its time to change the UV-C lamps.

REPRESENTED BY:

# UVR

## UV RESOURCES

Corporate Office  
P.O. Box 800370  
Santa Clarita, CA 91380-0370  
Phone 877.884.4822  
Fax 877.794.1294  
Website [www.UVRresources.com](http://www.UVRresources.com)

### CONSTRUCTION

**HOUSING:** The UV-C Hour Meter housing is constructed of high performance industrial grade plastic impregnated with black-carbon for structural integrity and UV-C exposure resistance. Mounting-holes facilitate easy installation.

**LCD DISPLAY:** Highly visible numbers, 5/16-inches high, provide a direct-digital indication of run-time hours of UV-C lamp operation. Dynamic-memory saves that run-time in case of a power outage.

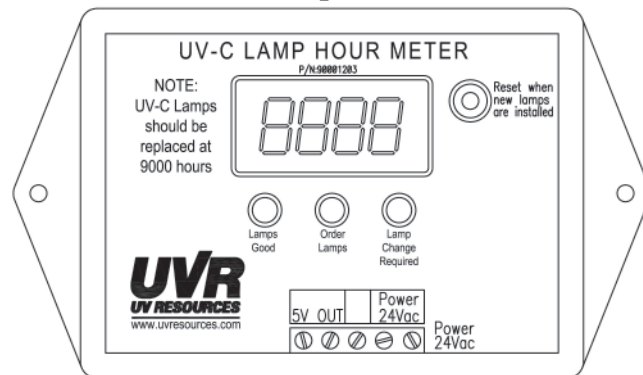
**RESET:** Push button reset at annual lamp change-out to set the lamp-life timer to zero (0) hours.

**LED INDICATORS:** Green, yellow and red LED status lights indicate lamp run-time as good (Green), prepare for lamp-change (Yellow) and change lamps (Red).

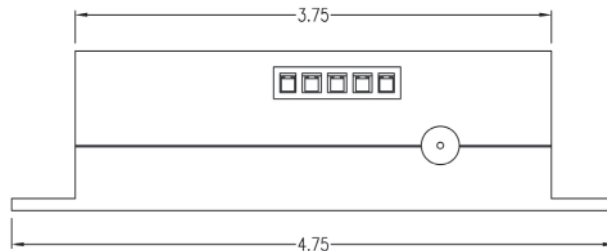
**BMS COMMUNICATION:** 5V relay signal for BMS integration. 5V constant signal changes to 1Hz 5V signal at 8,041 hours indicating impending change-out. At 9000 hours, a 3Hz 5V signal indicates time to change the UV-C lamps

**TERMINAL BLOCK:** Terminal block features screw-down electrical clamps, 5V out-signal, and power connections using solid or stranded wire.

### UV-C Lamp Hour Meter



Front View



Side View

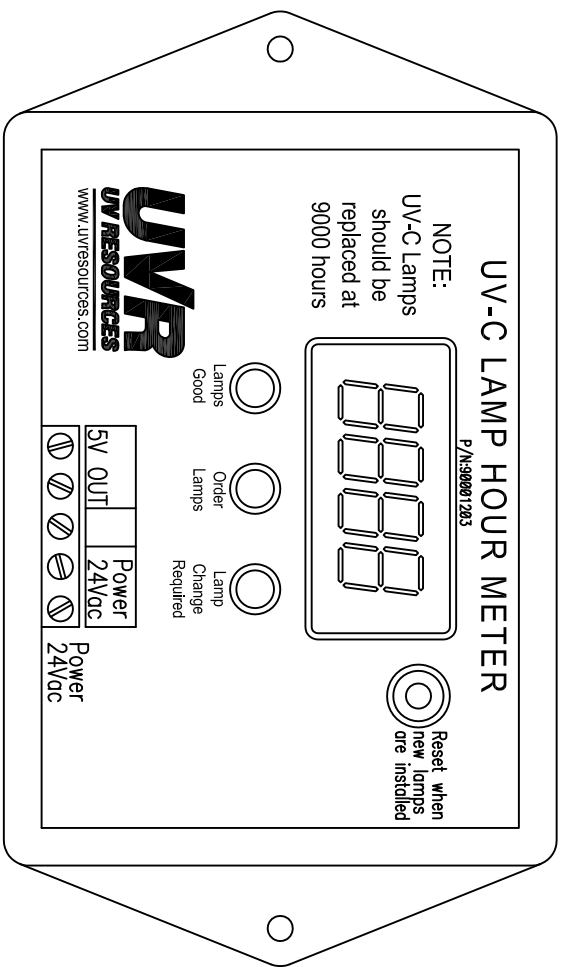


End View

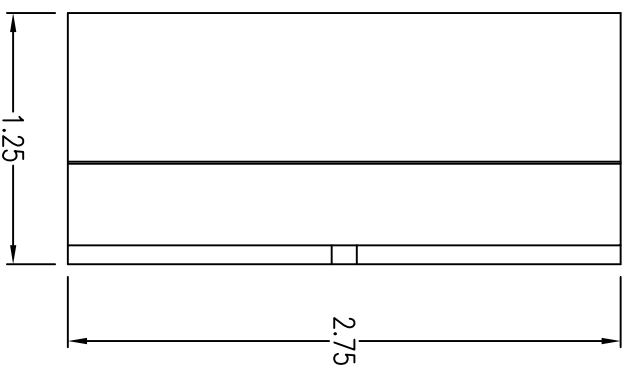
### ORDERING INFORMATION

Model #	P/N	Description	Electrical	Weight
UVR-24V-HR-MTR	90001203	UV-C Hour Meter	24V	2lbs

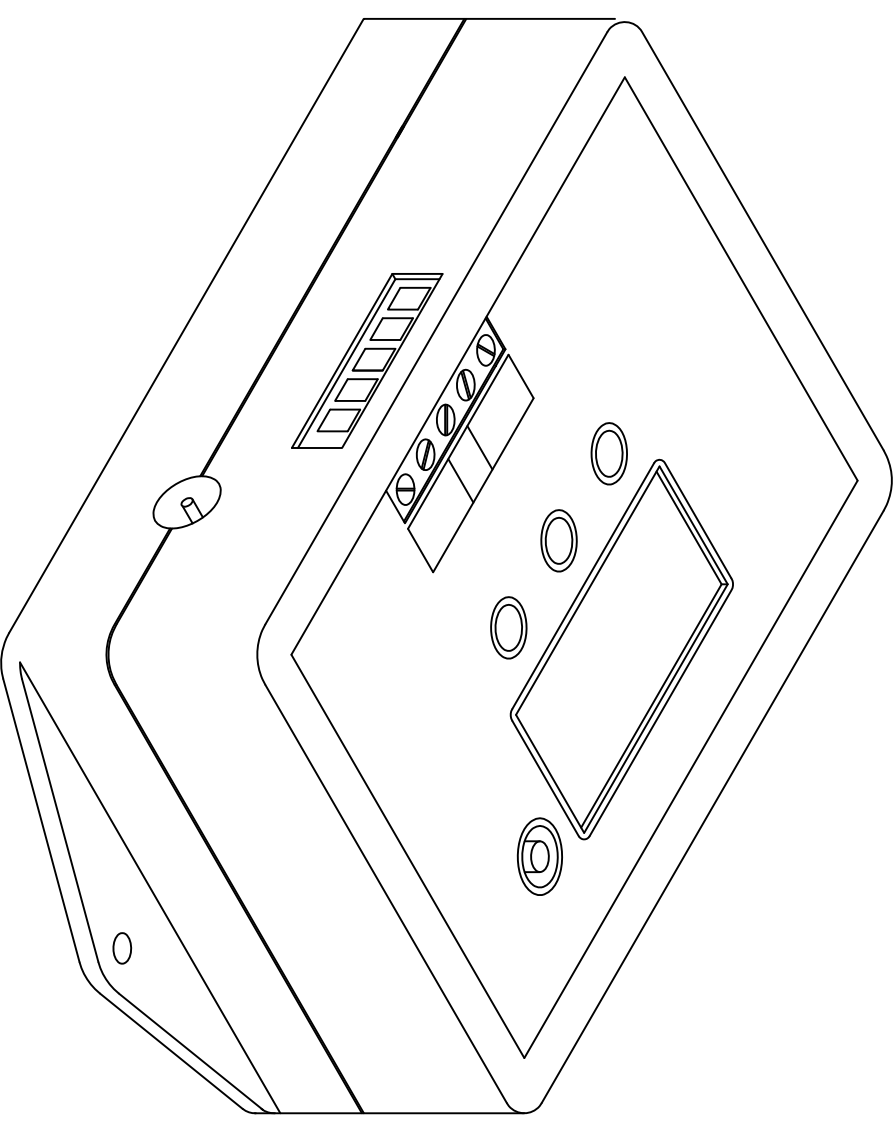
The UVR website contains tools that let you select, specify, and/or purchase complete UV-C systems. You'll also find valuable content that will help simplify installation, operation, and maintenance of UV-C systems. For more information, go to [www.uvrresources.com](http://www.uvrresources.com)



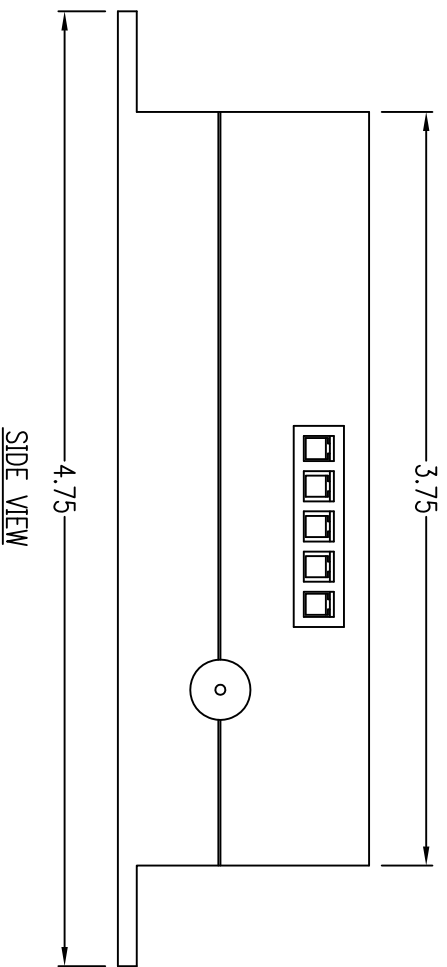
FRONT VIEW




END VIEW



ISOMETRIC VIEW



SIDE VIEW

Rev	Date	Description
		
Description: UV-C LAMP HOUR METER		
PN: 98001203		
Rev: A	Date: 8/18/17	Dwg No. 98001203
		1 of 1

# UV-C Lamp Hour Meter - Installation & Operation Manual (IOM)

## GENERAL

The UV-C Lamp Hour Meter tracks the actual run-time of UV lamp installations. Its purpose is to alert the facility engineer/manager when UV-C lamps should be replaced. It has three output indicators: (1) a direct LCD readout of the elapsed time the UV-C lamps have been running; (2) LED lights of Green, Yellow (30 days until recommended lamp replacement) and Red (lamp replacement recommended); and (3) A 5V relay signal for output to building automation/management systems (BMS). When the timer reaches 30 days (or 8040 hours) prior to the recommended lamp change, the 5V signal will change to a slow intermittent signal. Once the timer reaches 365 days(8760 hours), the 5V signal will change to a rapid intermittent signal indicating lamps should be changed.

## What's Included

1. UV-C Lamp Hour Meter
2. Two self-tapping mounting screws
3. 24Vac wall adapter

### UV-C Lamp Hour Meter:



### LED indicators:

HOURS	LED Color	5V OUTPUT
0-8040	Green	5V Constant
8041-9000	Yellow	1Hz 5V
9001+	Red	3Hz 5V

## Electrical

Ambient Temperature: 50 - 110° F  
 Relative Humidity: <90%  
 Supply Voltage: 24Vac +/-10% - 50/60Hz\*  
 Power Consumption: <3 Watts  
 Relay Contact: 5V Signal  
 Relay Capacity: 24Vac/5A, 30Vdc/5A

**\*NOTE: UV Resources provides a 24Vac wall adapter power supply/step-down for this product that recommended for use.**

## INSTALLATION

Using the 2 screws (supplied), level and mount the UV-C Hour Meter in visible and convenient location where 24Vac power is available. At the labeled wiring block (or with the plug), connect isolated 24V power to the "Power" screws (**NOTE: UV Resources supplies a 24Vac wall adapter**).

## Operation

1. Apply power to the UV-C Lamp Hour Meter from the isolated 24Vac power source (e.g. 24Vac wall adapter provided).
2. Press "Reset" button until LCD hours read "0" (zero). The Hour Meter is now ready for use.
3. Repeat this procedure each time the lamps are replaced.

UV Resources™ (UVR) warrants to the original buyer that its Products shall be free from defects in material or workmanship under normal use and service for the periods of time set forth below. This warranty is contingent upon proper use of Products and will not apply if adjustment, repair or parts replacement is required because of an accident, unusual physical, electrical or electro-mechanical stress, neglect, misuse, failure of electric power, humidity control, transportation, unauthorized repair actions, or not installed or maintained in accordance with UVRs' specifications hereunder, or where Product serial numbers have been altered, defaced, or removed. UVRs' obligation under this warranty shall not arise until the Purchaser of the Product returns the defective part to UVR. This warranty is limited to the repair and/or replacement of parts. This warranty does not cover any labor or subsequent damage incurred as the result of Product failure or indirectly arising from the design, construction, installation, servicing, or operation of Products. UVR and its resellers' liability under this warranty shall in no event exceed the cost of goods sold under the original sale contract.

Under the conditions specified above, UV Resources warrants this Product for a period of one (1) year from date of purchase. Buyer must provide proof of purchase. This is UVRs' sole warranty. No warranties are extended beyond those described herein and it is expressly agreed that this warranty will be in lieu of all warranties of fitness and merchantability. UVR neither assumes, nor authorizes any person to assume for it, any obligation in connection with the Products. Buyer shall not return to UVR any allegedly defective goods without UVRs' prior written authorization. This warranty may not be assigned or transferred.



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