

Instruction Sheet

4-20mA Sensor Interface Breakout Box

Models: PRO Series, D4+, D4 Premium, E4+, F4+, G+, H+, J+, K+

Overview

The 4-20 mA UV sensor interface unit allows the UV sensor current to be accessed and monitored by an auxiliary device so that remote monitoring can be achieved. The unit must be terminated with a resistor so that the loop current is maintained and not broken. Connection to the loop is done by connecting the termination wires to the terminals marked + and - and securing the wires with the brass thumb nuts.

Section 1 Safety Information

Please read this entire instruction sheet before installation. Pay attention to all danger, warning, and caution statements. Failure to do so could result in serious personal injury or damage to the equipment.

Make sure that the protection provided by this equipment is not impaired. Do not use or install this equipment in any manner other than that specified in the instruction sheet.

1.1 Safety Precautions

⚠ DANGER

Failure to follow these instructions will result in serious injury or death.



Shock Hazard - Stored Energy



- Disconnect power to system before performing any maintenance or repair.



- There may be more than one source of power. Only connect to a GFCI.



- Protective ground



- DO NOT touch with wet hands.

Pressurized Device - Impalement Hazard



- NEVER perform any physical inspection, repair or maintenance on UV chamber unless UV chamber has been isolated and depressurized.



- NEVER service UV lamps, lamp sleeves or associated hardware until depressurization of UV chamber has been confirmed.



- DO NOT store any combustible or flammable material close to the system.

Safety Information

⚠ WARNING

Failure to follow these instructions could result in serious injury or death.

UV Light Hazard



- ALWAYS use UV protective gear, including gloves and UV safety glasses.
- NEVER look directly at illuminated UV lamp, even when using protective gear.
- NEVER illuminate UV lamp outside of the UV chamber.
- If accidental exposure occurs, immediately cool affected area and consult physician.



Contamination Hazard

- If UV lamp breaks, avoid inhalation, ingestion, or exposure to eyes and skin. Wear appropriate clothing and personal protective equipment.
- NEVER use a vacuum cleaner to clean up broken UV lamps as this will scatter the mercury. Obey local regulations and guidelines for the removal and disposal of mercury waste.



WARNING: This product can expose you to chemicals including Phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

⚠ CAUTION

Failure to follow these instructions could result in minor or moderate injury.

Thermal Hazard



- Allow UV lamps, UV chamber to cool for a minimum of 10 (ten) minutes before handling.
- When there is no water flow, the water in the chamber will become hot. To prevent scalding, allow the system to cool for 10 minutes before draining the system.

Personal Injury Hazard



- UV lamps and lamp sleeves are fragile. Do not strike, bend or apply pressure, or they will break.
- DO NOT handle UV lamps or lamp sleeves with bare hands. Wear rubber or latex gloves to handle previously installed UV lamps and soiled lamp sleeves to protect against contaminants. Wear cotton gloves to handle new UV lamps and clean lamp sleeves.

Hg Exposure



- The UV lamp contains mercury. If the lamp breaks, then avoid inhalation or ingestion of the debris and avoid exposure to eyes and skin. Never use a vacuum cleaner to clean up a broken lamp as this may scatter the spilled mercury. Obey local regulations and guidelines for the removal and disposal of mercury waste.

NOTICE

System Protection



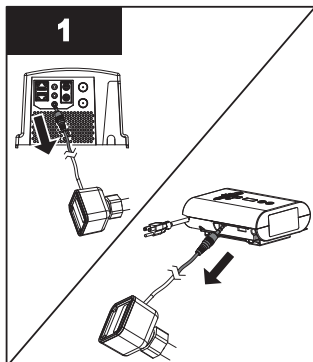
- To protect the Controller, a UL 1449 certified (or equivalent) transient voltage surge suppressor is strongly recommended.

Avoid Injury

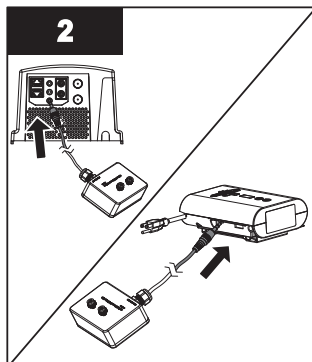
- Read and understand this Instruction Sheet before operating and performing any maintenance on this equipment.

Section 2 Installation

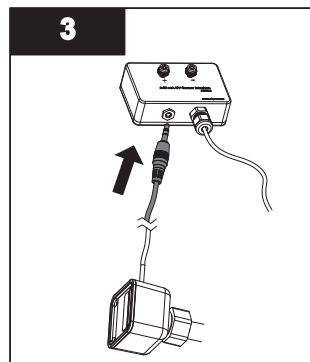
Procedure:



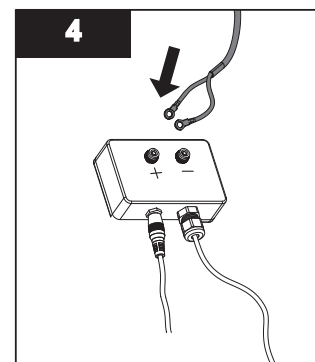
- Remove the UV sensor cable (blue connector) from the controller unit.



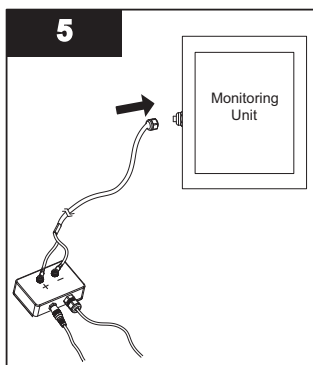
- Insert the sensor interface cable (blue connector) into the controller where the UV sensor was connected.



- Plug in the UV sensor cable into the plug in the sensor interface unit.



- Connect a 2 conductor Signal cable (not supplied) to the terminals + and - on the UV sensor Interface unit.
- Secure the wires on the terminals with the brass thumb nuts.



- Run the signal cable to the auxiliary monitoring device.

Notes: 1) Ensure that the monitoring device will terminate the loop with a low value resistor 100-300 ohms. This is to ensure that the loop current for the UV sensor is maintained in a closed loop.

2) Failure to maintain a closed loop will result in a sensor fault alarm on your controller unit.



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