

UVDynamics Remote Solenoid Interface Instruction Sheet

(RSI – P/N 400429/400429-240V)

UVDynamics RSI modules are used to power solenoid valves independent of a UV system's power supply, provide an override option not available on the solenoid valves themselves, and allow for remote alarms to be connected to a UVDynamics disinfection system.

Wiring Instructions for Solenoid Connection

Your UVDynamics solenoid valve will have a set of wires with a green connector. This connector should be plugged into the matching space on the RSI labeled 'SOLENOID'. The RSI also has a set of wires with a green connector; the RSI connector should be plugged into the matching space on your UVDynamics power supply labeled 'SOLENOID'. The RSI kit will include a small transformer; this transformer should be plugged into the same surge protector as the UV system, and it will connect to the RSI into one of two matching ports. For regular operation the transformer should be connected to the port labeled '12VDC'; in this set up the solenoid valve will be open whenever the UV system is operating properly; the valve will close if the UV lamp is off or if the UV level on a monitored system falls below the alarm threshold. Plugging the transformer into the port labeled 'OVERRIDE' will force the valve open in either of the above scenarios. **NB. Overriding the solenoid valve can result in untreated water entering the plumbing distribution system. Plumbing disinfection will need to be performed to protect your water from being re-contaminated after the UV disinfection system.**



UVDynamics solenoid valves are normally closed valves; they require power to stay open. In the case of a power outage there is no mechanism to override the valve and force it open.



Wiring Instructions for Remote Alarm Connection

The UVDynamics RSI features a set of dry contacts which can be used for a remote alarm. The three contacts provided are labeled 'N/O' – normally open, 'COMMON', and 'N/C' – normally closed. These contacts have no voltage potential and can be used to provide signal to a remote alarm horn or SCADA system.