635 Westport Parkway Suite 312 Grapevine, TX 76051

NC3150-II
Electronic Controller - Pulse/Flush Timers

The unit is equipped with an electronic controller (PLC) which provides for the adjustment of (3) timers. The first two timers control the “ON” time and “OFF” time of the three precursor solenoid valves. This allows the operator to set the time in seconds that the valves will be “ON” and “OFF”. This effectively controls a duty cycle pulse of the generator to regulate the resulting ClO2 concentration in the process. The third timer is a flush delay timer that allows the generator and piping to be flushed for a period of time after the feed cycle has been completed. So, once the selector switch is placed in the “OFF” position the three precursor valves are closed and the motive water valve and booster pump (if required) remain “ON” for the designated flush time. If the unit is being operated in the “AUTO” mode then once the external control signal (dry contact) is de-energized (opened) then the same flush cycle will begin.

A flush is accomplished when a sample collected at or near the injection point is clear and has a pH and/or conductivity close to that of the motive water.

Setting of the (3) timers is accomplished via the display on the front of the PLC. Using the UP and DN arrow and Select keys on the display and the menu prompts each timer can be adjusted in seconds. For continuous “ON” operation, adjust the “OFF” timer to zero. Maximum values for the timers are limited to xxxx seconds.

A wiring schematic is included with this manual showing connection details for wiring a motive water valve, booster pump or external control signal. A dry contact is required for external control. If a powered signal is available then an interposing relay can be used to supply the dry contact.

Custom control capability is available for specific applications using the standard NC3150-II electronic controller. Contact H2tronics for custom PLC modifications or for other PLC platform requirements.