

# Instructions for Device to Facilitate Flushing CLX Chlorine Analyzer



Ensure CLX is in Auto MODE. DO NOT ENGAGE THE FLUSHING DEVICE WHEN CLX IS IN ANY OTHER MODE. RS-485 MUST BE ON.

**Operation:** Turn ON the external FLUSHING device. User will then actuate the device as outlined below, which would (via modbus) engage the SERVICE MODE on the CLX instrument on the first button press allowing time to convert the plumbing for the cleaning function. On the second button press the system will open two solenoid valves INLET and DRAIN on the CLX. The user will then begin a flow of cleaning solution to the analyzer using an external pump (optional) which the user connected to the instrument. When cleaning is complete the timed sequence will close the solenoids to prevent overheating of the solenoids and damage to them. Alternatively the user has the option to end the flushing cycle sooner by pressing the button again. Once the flushing is complete, while still in SERVICE MODE, the CLX is restored by the user to normal plumbing configuration and the button is pressed once again to return the CLX to normal operation, after a Water CAL.

- **STEP ONE:** Turn ON power to the Flushing Device.

When turned ON the flushing device will display “**FLUSH SYSTEM READY**”  
NOTE: The CLX MUST be in AUTO mode to function as intended.

- **STEP TWO:** Press the button on the Flushing device. This puts the CLX into SERVICE MODE.

The Flushing device will display “**ANALYZER IN SERVICE MODE**”.



- **STEP THREE:** Make the necessary plumbing connections to the inlet and drain to connect the pump to flow the cleaning agent through the CLX and to recirculate the cleaning agent through the TEE Strainer and the CLX.

- **STEP FOUR:** Press the button on the Flushing device again. This will open the inlet solenoid and the drain solenoid valves allowing full flow of the cleaning solution through the optical system of the CLX. Start the pump with the flushing solution.

The Flushing device will display “**FLUSH MODE ACTIVE**”.

*NOTE: Flush mode will time out after 30 minutes OR the process can be stopped by pushing the button again.*

- **STEP FIVE:** Once the cleaning / flushing is complete the CLX will still be in SERVICE MODE.

The Flushing Device will display “**ANALYZER IN SERVICE MODE 2**”. The user should use this time to restore the plumbing to monitor the sample stream. Once normal sample flow is restored, if desired, you can use this time in SERVICE Mode to perform a FLOW TEST if desired.

- **STEP SIX:** Once the sample stream has been restored to normal and any FLOW test or other SERVICE operations are completed, press the button again. This will take the CLX out of SERVICE MODE and after a Water Cal the CLX will return to normal operation.

The Flushing Device will display “**FLUSH SYSTEM READY**”.

- **STEP SEVEN: TURN OFF THE FLUSHING DEVICE.** It is recommended to power down the FLUSHING DEVICE when not in service.

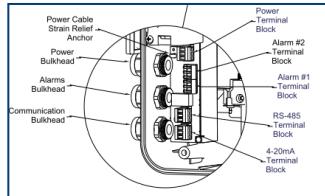
## CLX WIRING:

Wiring CLX to use FLUSHING DEVICE

## RS-485 WIRING

Wiring from Flushing Device

Red Wire	CLX RS-485 Upper Terminal
Black Wire	CLX RS-485 Lower Terminal



## CLX SETTINGS:

To Set Up CLX to use FLUSHING DEVICE

### **RS-485 MUST BE ON**

Leave Default Configuration Settings for RS-485 on the CLX

BAUD	9600
ADDR	1
BITS	8
PRTY	nOnE
STOP	1

Alternatively you can use factory reset to ensure the settings are factory default