

1. OBJECTIVE

Details adding a third party, Great Lake Instruments, toroidal, non-contact conductivity sensor to an existing Flex or 'AS' series controller.

2. REQUIRED PARTS

Great Lakes parts: www.gliint.com

1. Polypropylene sensor, Part# 3725E2T
2. CPVC, 2" 'T' fitting with union adapter, Part# MH538N3NZ
3. Two wire transmitter Part# Model 697E3(Obsolete) OR Part# PRO-E3A1N

DigiKey Part# T521-ND
24VDC, 400mA wall mount power cube.

If you do not have space in the existing controller enclosures for the 5"x5" nominal transmitter and the 2 1/2" cubed, power cube, then install these parts in an enclosure adjacent to the sensor or controller enclosure.

3. INSTALLATION

Generic installation for any unused analog input 'G' to 'N' in a Flex series controller or 'G' to 'I' in an 'AS' series controller.

Typical wiring for controller input 'G'

1. Supply 120VAC to the 24VDC power cube.
2. Wire the power cube DC '+' to 697E3 '+' 4-20mA Terminal TB1.
3. Wire the power cube DC '-' to the controller **G-** terminal.
4. Wire the 697E3 '-' 4-20mA Terminal TB1 to the controller G+ terminal.

Option: Aquatrac can install and pre-wire the transmitter and power cube in the controller enclosure, prior to shipping to the end user site.

4. SET-UP

1. Set the 697E3 transmitter temperature coefficient and range. See user manual
2. Immerse the sensor.
3. Using Trackster, enable 'G' then use Terminal mode to issue the **PAG,,1** command.
4. Using Trackster, Set the 'G' units to upper case 'US'
5. Use Trackster do a theoretical 4-20mA calibration on the conductivity on 'G'