

## **AF2000-30 Level Controller**

The AF2000-30 water level monitor provides a turn-key solution for measuring liquid levels and controlling small solenoids or small pumps for water depths up to 30-feet





Package includes the following pre-assembled and tested. Factory programming on set points available at no additional cost.

- (1) Fill Controller
- (1) with NEMA 4 enclosure
- (1) Submersible Water Level Transmitter Level Transducer Sensor with 50-ft Cable / 30ft max sensor depth.
- (1) 120VAC to 24VDC Power Supply

### **Enclosure:**

Enclosure: NEMA 4X, UL/C-UL listed thermoset polyester material enclosures feature a hinged door with stainless-steel hinges and clasps.

Overall Outside Dimensions:

- 11.80 H x 7.90 W x 7.01 D inches Mounting Dimensions: 9.96 x 7.72

Display: Upper display: 0.60" / Lower display: 0.46"

### **Submersible Sensor:**

Solid state semiconductor sensor for accuracy and reliability

Lightweight and compact size

Rugged 316 stainless steel housing with excellent environmental protection

Sensor diameter is 1.17 inches.

50-foot long cable

### Panel:

Front Panel: NEMA 4X, IP65

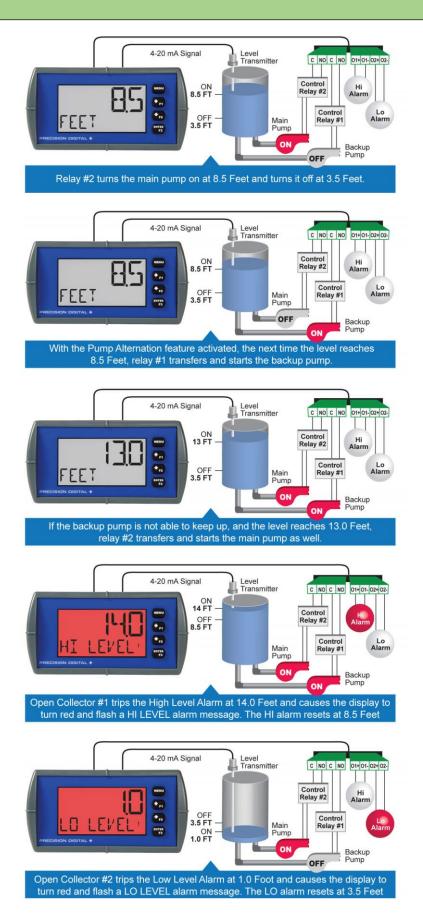
Non-Volatile Memory: All programmed settings are stored in nonvolatile memory for a minimum of ten years if power is lost.

Environmental:

Operating temperature range: -40 to 65°C Storage temperature range: -40 to 85°C Relative humidity: 0 to 90% non-condensing UL File Number: UL & C-UL Listed. E160849; 508 Industrial Control Equipment.

Open Collector Outputs: Two NPN, Isolated open collector, 30 VDC @ 150 mA max for connection to fire alarm panel – high / low alarms

Solid State Relays: Two 250 VAC/VDC @ 1A resistive for control of solenoids or pumps for filling







# FILL CONTROLLER QUICK START GUIDE

- 1. REMOVE PRESSURE TRANSDUCER AND 50-FT CABLE FROM ENCLOSURE AND LOWER INTO TANK. SHOULD SIT ON BOTTOM OF TANK (TRANSDUCER MEASURES PSI/FEET OF WATER ABOVE)
- 2. MOUNT TO WALL AS DESIRED OFFSET MOUNTING CLIPS ARE TAPED INSIDE ENCLOSURE
- 3. DETERMINE HOLE LOCATIONS FOR:
  - a. 120V AC POWER AND
  - b. THE BLACK TRANSDUCER CABLE A GROMMET IS PRE-INSTALLED ON THE 50-FT CABLE
- 4. CONNECT THE GREEN PLUG TERMINALS TO FRONT DISPLAY
- 5. CONNECT THE PRESSURE TRANSDUCER (THREE WIRES / COLOR CODED)
- 6. CONNECT THE SOLENOID OR PUMP TO THE RELAY. NOTE THAT THE RELAY CONTACTS ARE NOT POWERED AND ARE ONLY DRY CONTACTS. YOU NEED TO PROVIDE YOUR OWN POWER TO THE SOLENOID/PUMP BASED UPON SITE SPECIFIC CONFIGURATION.
- 7. CONNECT 120V AC POWER (NON-ENERGIZED) TO INTERNAL 24VDC POWER SUPPLY.
- 8. TURN ON 120V BREAKER
- 9. ASSUMING TANK NOT FULL, CONTROLLER SCREEN SHOULD HAVE ORANGE BACK-LIGHT AND FLASH "FILL ON" AND "LOW LVL" UNTIL THE SET POINT HAVE BEEN REACHED. DO NOT LEAVE UNATTENDED DURING INITIAL FILLING AS SOME FIELD CALIBRATION MAYBE REQUIRED.
- 10. LOW WATER-LEVEL CAN BE SIMULATED BY JUST PULLING THE TRANSDUCER UP IN THE WATER COLUMN/LEVEL.
- 11. FACTORY PRE-SET LEVELS CAN BE EASILY FIELD ADJUSTED BY USING THE USB SUPPLIED CABLE AND DOWNLOADING SOFTWARE FROM: <a href="https://anvil-fire.com/fill">https://anvil-fire.com/fill</a>
- 12. SUPPORT: <a href="mailto:support@anvil-fire.com">support@anvil-fire.com</a> or 406-624-9408



# **WIRING DIAGRAM**

