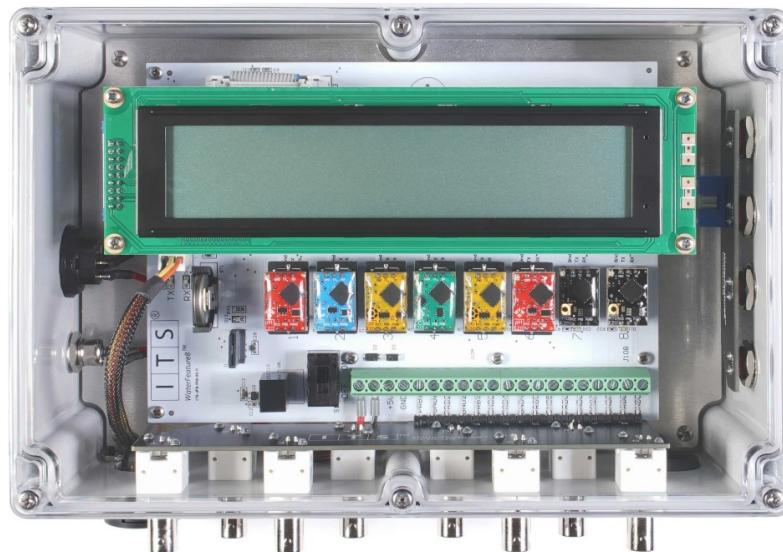


ITS WaterFeature8 A-Series Sensor Interface System User Guide

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TS WaterFeature8 A-Series Sensor Interface System User Guide



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Disclaimer

The WaterFeature8™ Sensor Interface System is a multiparameter water

quality monitoring device. It may also perform as part of a PID control loop when connected to a third-party PLC system. It is good engineering practice to consider how critical each piece of hardware is to the control loop system, and to plan for and design appropriate fail-safe hardware and/or procedures accordingly. Integrated Treatment Systems, LLC is not responsible for process disruption due to hardware or firmware failure.

This Quick Start Guide includes brief instructions for getting your Atlas Scientific powered WaterFeature8 up and running with as little paper waste as possible. Please refer to the complete User Manual, downloadable at www.intreatsys.com/downloads, for more information.

Install the included CR2025 battery if you want to retain clock settings when the unit is powered off. Align the battery with the PLUS (+) side facing the “+” symbol on the PCB silk screen. With the edge of the battery, gently pry “out” on the metal battery holder tab and slide the battery into the socket. Exercise care to avoid bending the metal retaining tab on the battery holder. The Real Time Clock will work without the battery, but it will not retain date/time settings if the power is turned off.

EZO Circuit SETUP

When you first install Atlas Scientific, LLC EZO® circuits in the WaterFeature8 you will likely see some junk on the screen, or some channels may not be correctly reading. These EZOs must be set up to function with the WaterFeature8 unit.

There are three ways to set up Atlas Scientific EZO circuits to function with the WaterFeature8 system:

1. Using the Auto Config function available on firmware v1.02 and later,
2. Manually using a terminal emulator and serial converter,
3. Using the built-in Remote State function.

This Quick Start Guide describes the first method of EZO programming; the Auto Config function.

Programming an EZO circuit will NOT overwrite existing calibration that has been previously programmed into the EZO memory.

EZO circuits must be in UART mode to be visible to the WaterFeature8 system. EZO circuits are shipped from the Atlas Scientific factory in UART mode by default, however, it is possible to accidentally change an EZO mode from UART to I2C, and if this occurs, the EZO must be manually changed back to UART before Autoconfig will be able to read the EZO. Refer to Atlas Scientific's EZO circuit documentation for more information regarding the “factory” command and modes of operation.

Automatic Configuration

The firmware version shipped with this WaterFeature8 system includes the AutoConfig EZO circuit programming function which works with all WaterFeature8 compatible EZO circuits to provide a hassle-free method of programming factory default installed EZO circuits without a terminal emulator or serial communications device.

To run the Automatic Configuration feature:

From the Home Screen, press Set→ [SW4] (Switch 4 is the bottom button on the right-hand side of the enclosure) to enter the Settings menu tree. Browse the menus to find Auto Config by pressing System→ [SW1], then NEXT→ [SW3], and finally Auto Config→ [SW2].

Before Auto Config runs the system displays the following menu:

```
WaterFeature8 EZ0 AutoConfiguration
Function Initiated
Press CONFIRM to Continue  Confirm-->
                           BACK-->
```

Pressing BACK→ [SW4] immediately returns to the System 2 menu. Pressing Confirm→ [SW3] begins the AutoConfigure procedure and the WaterFeature8 begins programming the EZ0 circuits it recognizes in the populated channels. **While running, the following display is shown:**

```
WaterFeature8 EZ0 AutoConfiguration
CONFIGURING EZ0s.....
```

The AutoConfig function typically requires less than a few seconds to perform. Once complete, the following screen displays for 3 seconds:

After confirming a successful AutoConfiguration routine, the AutoConfig function automatically exits and the WF8 system returns to the System 2 menu. Press BACK→ [SW4] multiple times to return to the Home Screen (a.k.a. Main Menu).

```
WaterFeature8 EZ0 AutoConfiguration
COMPLETE
```

If the EZ0 circuits do not appear on the Home Screen, the user should run AutoConfig again to see if this corrects the issue, otherwise Manual Configuration may be required. Faulty EZ0 circuits may not be recognized by the WaterFeature8 system, and EZ0 circuits in a different mode (such as I2C) will not be visible to the WaterFeature8 and are therefore not compatible with AutoConfigure or the rest of the WaterFeature8 operating system. If this is the case, the EZOs will need to be manually programmed to UART mode and 9600 baud rate. See the Atlas Scientific datasheets for more information.

OTHER DETAILS

Now that the WaterFeature8 is powered on and running, the system is relatively simple to navigate with the four pushbuttons included with the product

The complete User Manual includes more detailed information regarding these topics:

- Installation specifics;
- EZ0 and Sensor Calibration;
- Temperature Compensation assignments;
- Data Recording;
- Local State and Remote State operating modes;
- System components and replacement parts;
- Version history and EZ0 compatibility.

Warranty Overview

The following activities will explicitly void this product's limited warranty which is printed on the next page:

- Failure to register your product with ITS. Visit www.intreatsys.com/warranty for product registration instructions;
- Soldering or de-soldering any component on the circuit board;
- Downloading or modifying the on-board firmware without express authorization and instruction from Integrated Treatment Systems, LLC;
- Wiring to the remote connection PROG header without use of an ITS approved TTL serial adapter;
- Placing the system in environments known to be hostile to printed circuit boards such as temperatures above 125 0 F, extreme thermal shock, high humidity or otherwise moist environments, and vibrating or moving conditions.

You must register your device at www.intreatsys.com/warranty to obtain warranty coverage for this product.

Shipping expenses related to warranty work outside the contiguous 48 United States are not eligible for coverage or reimbursement.

Contact Us

We are excited to continue developing universal, cost-effective solutions to solving water quality challenges and are looking forward to your suggestions to improve our products.

Feel free to contact us in any of the following ways:

Email: customerservice@intreatsys.com

Web: <http://www.intreatsys.com/contact-its>

WARRANTY STATEMENT

This limited warranty is governed by and construed under the laws of the State of Iowa.

INTEGRATED TREATMENT SYSTEMS, LLC (ITS) WARRANTS ITS PRODUCTS AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP UNDER NORMAL USE FOR A PERIOD OF 1 YEAR FROM DATE OF SHIPMENT ("WARRANTYPERIOD"). IF A DEFECT ARISES AND A VALID CLAIM IS RECEIVED WITHIN THE WARRANTY PERIOD, ITS WILL, AT ITS OPTION AND TO THE EXTENT PERMITTED BY LAW, FOR ANY ITS MANUFACTURED DEVICES THAT ARE RETURNED AND CONFIRMED BY ITS TO BE NON CONFORMING TO THE PRODUCT SPECIFICATIONS AND/OR THE APPLICABLE QUALITY AND ACCEPTABILITY STANDARDS, EITHER (I) REPLACE THE PRODUCT AT NO CHARGE OR (II) ISSUE A CREDIT EQUAL TO THE ORIGINAL PURCHASE PRICE OF THE PRODUCT. WHEN A PRODUCT IS EXCHANGED, ANY REPLACEMENT ITEM BECOMES THE CUSTOMER'S PROPERTY AND THE REPLACED ITEM BECOMES ITS' PROPERTY. WHEN A REFUND IS GIVEN, THE PRODUCT FOR WHICH THE REFUND IS PROVIDED MUST BE RETURNED TO ITS AND BECOMES ITS' PROPERTY. ITS WILL NOT ACCEPT LIABILITY FOR ANY COST IN ADDITION TO THE VALUE OF THE PRODUCT INCLUDING BUT NOT LIMITED TO COMPONENTS, LABOR, BUSINESS INTERRUPTIONS, PROCESS PERFORMANCE IMPACTS, AND ANY OTHER CONSEQUENTIAL DAMAGES OR LOSSES. ITS DISCLAIMS ANY OPEN-ENDED ACCEPTANCE OF LIABILITY FOR LOSSES BEYOND THE CONTROL OF ITS.

THIS LIMITED WARRANTY DOES NOT APPLY: (A) TO DAMAGE CAUSED BY USE WITH NON-ITS PRODUCTS; (B) TO DAMAGE CAUSED BY ACCIDENT, ABUSE, MISUSE, FLOOD, FIRE, EARTHQUAKE OR OTHER EXTERNAL CAUSES; (C)

TO DAMAGE CAUSED BY USE OF THE PRODUCT OUTSIDE THE PERMITTED OR INTENDED USES DESCRIBED IN THE PRODUCT SPECIFICATIONS; (D) TO DAMAGE CAUSED BY SERVICE (INCLUDING UPGRADES AND EXPANSIONS) PERFORMED BY ANYONE WHO IS NOT AN AUTHORIZED REPRESENTATIVE OF ITS; (E) TO A PRODUCT OR PART THAT HAS BEEN MODIFIED TO ALTER FUNCTIONALITY OR CAPABILITY WITHOUT THE WRITTEN PERMISSION OF ITS; OR (F) TO COSMETIC DAMAGE, INCLUDING BUT NOT LIMITED TO SCRATCHES OR DENTS, THAT DOES NOT OTHERWISE AFFECT THE PRODUCT'S FUNCTIONALITY OR MATERIALLY IMPAIR IT'S USE.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES, AND CONDITIONS, WHETHER ORAL OR WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW, ITS SPECIFICALLY DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. IF ANY TERM OF THIS WARRANTY IS HELD TO BE ILLEGAL OR UNENFORCEABLE, THE LEGALITY OR ENFORCEABILITY OF THE REMAINING TERMS SHALL NOT BE AFFECTED OR IMPAIRED. EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW, ITS IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF REVENUE, LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS ON CONTRACTS); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPATED SAVINGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY; LOSS OF GOODWILL; LOSS OF REPUTATION; LOSS OF DAMAGE TO OR CORRUPTION OF DATA; OR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE HOWSOEVER CAUSED INCLUDING THE REPLACEMENT OF EQUIPMENT AND PROPERTY, ANY COSTS OF RECOVERING, PROGRAMMING OR REPRODUCING ANY PROGRAM OR DATA STORED OR USED WITH ITS PRODUCTS. ITS DISCLAIMS ANY REPRESENTATION THAT IT WILL BE ABLE TO MAKE A PRODUCT EXCHANGE WITHOUT RISK TO OR LOSS OF PROGRAMS OR DATA. YOU MUST ASSIST IN DIAGNOSING ISSUES WITH YOUR SYSTEM ELECTRONICS AND FOLLOW ITS WARRANTY PROCESSES.

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Visit www.intreatsys.com/wf8 for current product information, including the most recent user manual. 2022.06.27



Documents / Resources

	<p>ITS WaterFeature8 A-Series Sensor Interface System [pdf] User Guide</p> <p>WaterFeature8 A-Series Sensor Interface System, WaterFeature8, WaterFeature8 Sensor Interface System, A-Series Sensor Interface System, Sensor Interface System, A-Series Interface System, Sensor</p>
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References

-  [Home: Integrated Treatment Systems, LLC](#)