

SENSIBLE FARM MANAGEMENT TOOLS



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WIRING INSTRUCTIONS

2011-14

CROP-LINK

Drip Installation

Items Covered In This Manual:

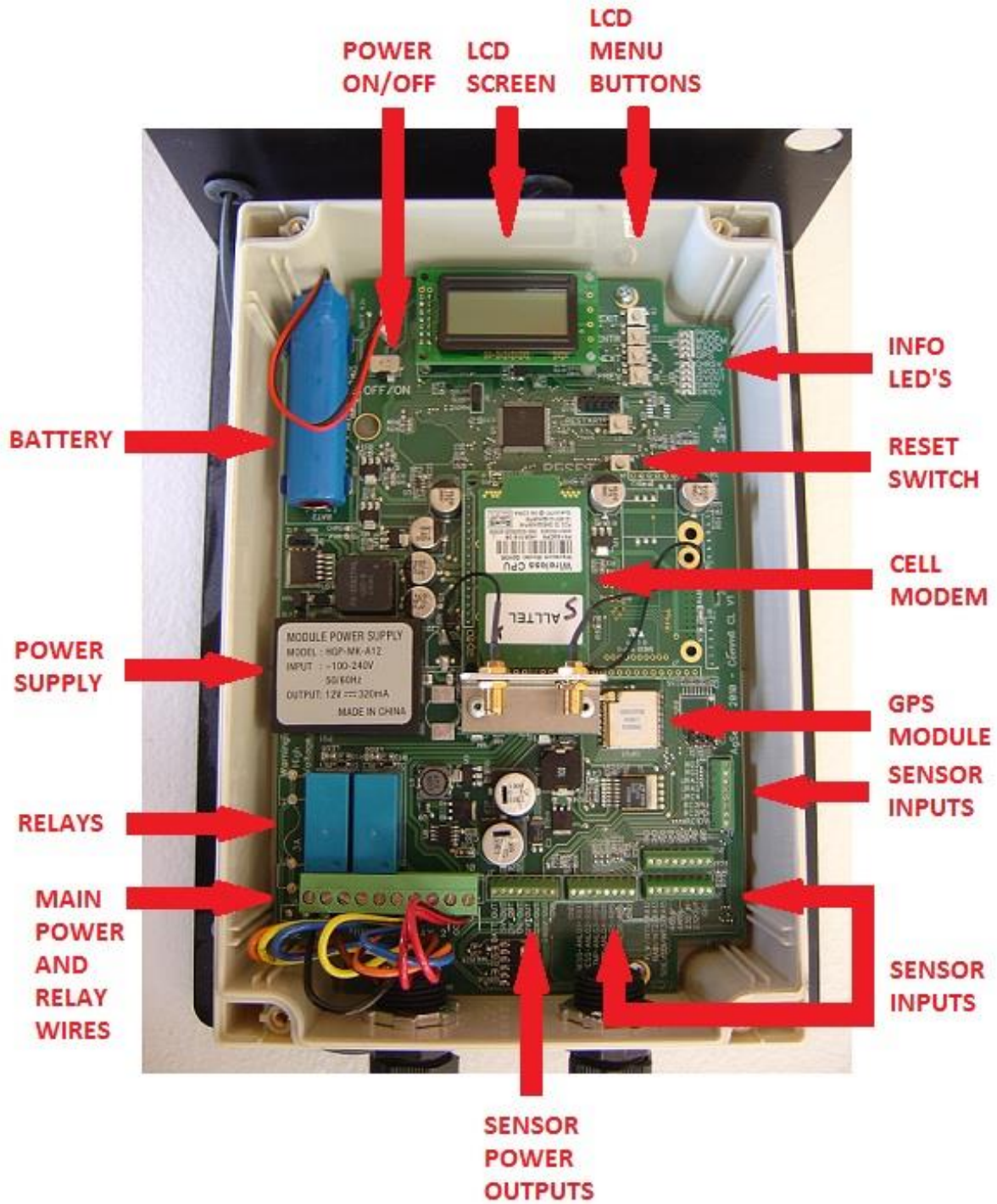
Page 1: Crop Link Device Overview

Page 2-3: Sensor Connections

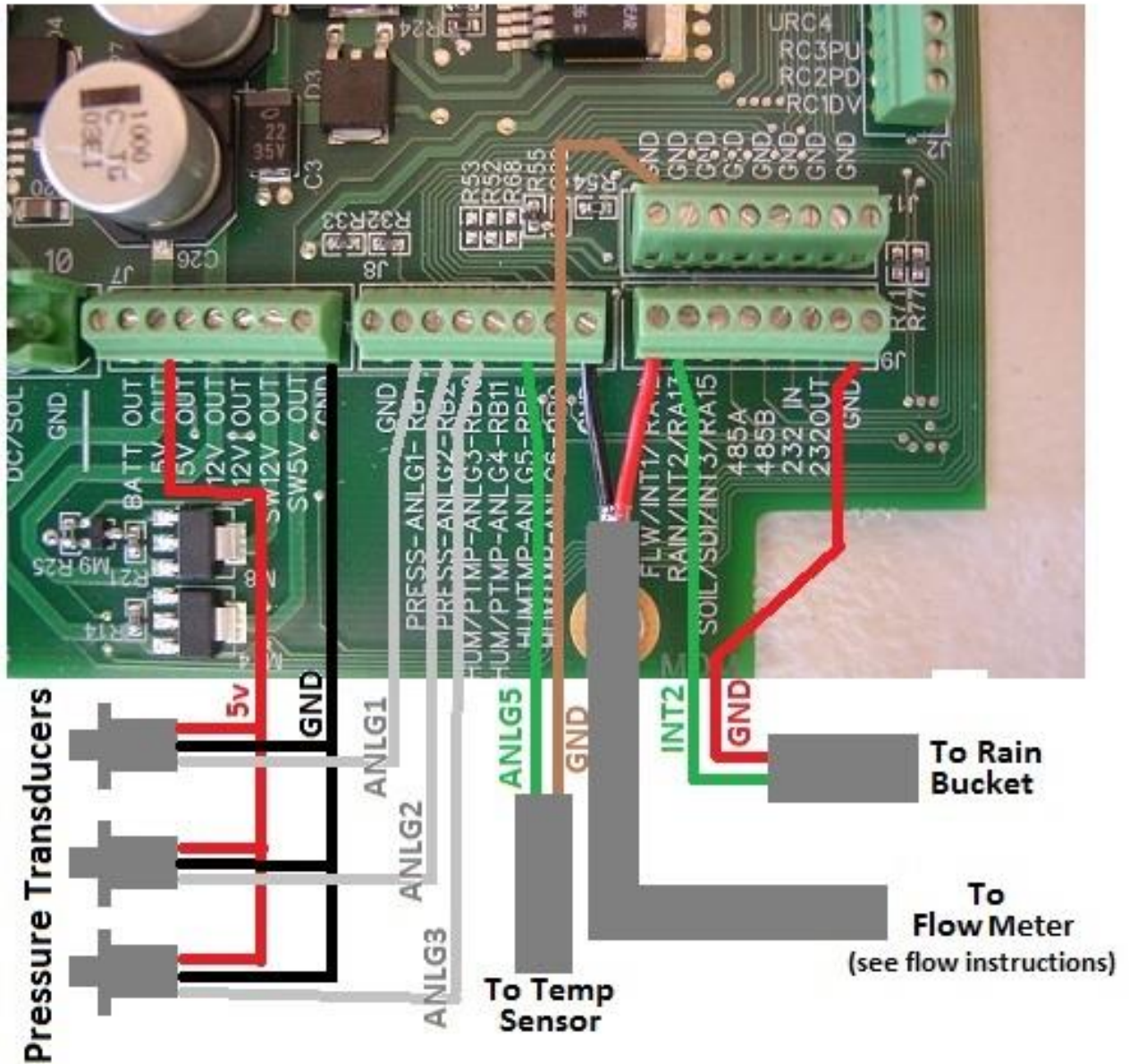
Page 4: Power and Relay Wiring

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General Overview of the Crop Link Unit



Wiring Diagram for Drip Irrigation Crop Link Units



Pressure Transducer White Wires:

- Sensor1 = **ANLG1**
- Sensor 2 = **ANLG2**
- Sensor 3 = **ANLG3**

Pressure Transducer Red Wires all connect to terminals marked: **5V OUT**

Pressure Transducer Black Wires all connect to any terminal marked: **GND**

Additional Sensors:

Temperature Sensor Green Wire connects to: **ANLG5 (if used)**

Temperature Sensor Brown Wire connects to any terminal marked: **GND (if used)**

Rain Bucket Green Wire connects to: **INT2 (if used)**

Rain Bucket Red Wire connects to any terminal marked: **GND (if used)**

Flow Meter Red Wire connects to: **INT1 ***

Flow Meter Black Wire connects to any terminal marked: **GND ***

*See separate CropLink Flow Wiring Manual for more information.

Power and Relay Wiring Instructions:

1. Choose one of these two ways to connect power to the cable that is attached to our box :

- AC powered units -

Black = 120v Power Input
Brown/Black stripe = Neutral

- DC powered units -

Red = 7-40v DC + Power Input
Red/black stripe = DC GND

2. Make sure power switch in the upper left portion of our circuit board is turned on.
3. Once you have power applied to our unit, Call AgSense at 605-352-8350 to have the configuration sent to the unit so it will start to read the flow meter.
4. Also, once power is applied to our unit, the configuration has been sent to the unit, and water is flowing through the pipe, the GPS light in the upper right corner of our circuit board will be blinking.

Optional: This unit has 2 relays that can be used to via the website to remotely control other equipment.

- Relay/Wire Connections -

Relay 1 Common = Blue
Relay 1 Normally Open = Orange
Relay 1 Normally Closed = Yellow

Relay 2 Common = Blue/Black stripe
Relay 2 Normally Open = Orange/Black stripe
Relay 2 Normally Closed = Yellow/Black stripe

Power Requirements for these units:

DC Powered Unit 7-40V DC:

At 12v DC: 1.0A MAX

0.1A - 0.5A during normal operation

120vAC Powered Unit:

At 120v AC: 0.25A MAX

0.05A - 0.15A during normal operation

The above numbers are the current required for our unit to operate. Below is the current the relays in our box can control:

On both AC and DC units, each relay can handle a peak max of 5A, 3A constant (at a max voltage of 120vAC, or 30vDC).

Warranty Information:

All warranty service provided by the AgSense service center, or an authorized technician.

**Warranty repairs require a Return Merchandise Authorization Number (RMA);
Have your dealer contact AgSense to obtain this RMA number.**

For the Period of :	AgSense will:
60 Days	Money back Guarantee if not satisfied with product.
1 Year	Repair on any unit that fails due to defect in materials or workmanship. AgSense labor and parts would be provided free of charge during the warranty period. (This does not include dealer labor.)

What is not covered:

- Service trips to your home to teach you how to use the product.
- Improper installation, delivery or maintenance. If you have an installation problem contact your dealer or installer.
- Failure of product resulting from modification to product or due to unreasonable failure to provide reasonable and necessary maintenance.
- Labor necessary to move device from one location to another.
- Improper installation of battery.
- Failure due to corrosion or water damage.
 - Units installed in direct contact with sprinklers require a tower box or other watertight protection.
- Damage to the product caused by improper power supply voltage, accident, fire, floods or acts of God.
- Damage caused after delivery.

Exclusion of implied warranties – Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for the products purchased for use within the USA.

Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have the other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

DISCLAIMER: The use of Field Commander/Crop Link shall not be utilized by customer as a substitute for the Customer's personal observation of the manner in which Customer's irrigation equipment is functioning. AgSense specifically advises Customer that this product is designed to enhance Customer's ability to control existing irrigation equipment and to provide the Customer with additional information about existing irrigation equipment. Field Commander/Crop Link relies upon GPS, Satellite and Internet technology which not always functions properly, accordingly, AgSense disclaims any and all responsibility for the reliability of this technology. Customer acknowledges that AgSense does not have the ability to control the reliability of GPS, Satellite and Internet Technology. AgSense specifically disclaims any and all liability for Customer's failure to personally determine whether or not the irrigation equipment that belongs to Customer is functioning properly. AgSense, its agents, members or officers will not be liable for Customer's loss of profits, business interruption, or any other type of consequential damages arising because of the failure to Customer's equipment, GPS, Satellite or Internet to function properly.

CUSTOMER'S RESPONSIBILITIES: Customer agrees to keep the irrigation equipment upon which Field Commander/Crop Link is installed in good repair and maintenance. Customer acknowledges the importance of and agrees to keep all safety devices which came with Customer's irrigation equipment in working order. Customer agrees to keep an end field stop and barricades in place to prevent damage to the irrigation equipment in the event that Field Commander/Crop Link malfunctions. Customer agrees that Field Commander/Crop Link cannot solely replace the personal monitoring of the operation of irrigation equipment.

REMEDY: Customer acknowledges that Field Commander/Crop Link's sole obligation and Customer's exclusive remedy in the event of any material and continuing nonconformity, defect, or error in the information service shall be to take reasonable corrective actions upon discovery of the problem.