

Two-Wire Wiring Details

Two-Wire Type

In each of the following categories, select the criterion that describes the wire you are using.

(Consult Baseline for approved equivalent wire types. Failure to use approved wire will invalidate warranty. Consult Baseline’s Two-Wire Technical Specification for details.)

Outer Jacket		Conductor Insulation rated at 140°F (60°C)	
<input type="checkbox"/> High density polyethylene (HDPE) between 0.035” and 0.048” thick, conforming to ICEA S-61-402 and NEMA WC5		<input type="checkbox"/> Low density, high molecular weight polyethylene (PE) with a thickness of 0.045” <input type="checkbox"/> PVC conforming to UL-493 or UL-719 for thermoplastic-insulated style UF (Underground Feeder)	
Conductors			
<input type="checkbox"/> Two conductors of the same gauge, conforming to ASTM B-33, B-3, or B-8			
Conductor Material	Conductor Arrangement	Conductor Color Coding	
<input type="checkbox"/> Bare copper <input type="checkbox"/> Tin coated solid copper	<input type="checkbox"/> Twisted <input type="checkbox"/> Parallel	<input type="checkbox"/> Black & red <input type="checkbox"/> Black & white <input type="checkbox"/> Blue & red	

Please specify the manufacturer and part number of your wire:

(Example: Paige spec P7072D) _____

Wiring Configuration: Looped Linear Combination Other: _____

(Please include an as-built diagram.)

Wire Gauge(s): _____

(Provide details if multiple wire gauges are used. Include an as-built site wiring diagram if available.)

Wiring Configuration

Total wire length of wire in the ground – Initial: _____ Final (within 5 years): _____

(Maximum length of wire in the ground is 16,000 feet. Consult Baseline’s Two-Wire Technical Specification for details.)

Total wire length to *farthest* device – Initial: _____ Final (within 5 years): _____

(Maximum supported distance to farthest device determined by wire size and configuration: Generally, total wire length = largest loop length / 2 + longest spur. Consult Baseline’s Two-Wire Technical Specification for details.)

Longest Valve Wire (12 & 24 Valve biCoders, if used): _____

(A maximum distance of 1500 feet to the most distant valve from a 12 or 24 zone biCoder is supported. Consult Baseline’s Powered biCoder Technical Specification for details.)

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Longest Valve Wire (1, 2, or 4 Valve biCoders, from biCoder to Valve): _____

(A maximum distance of 150 feet to the most distant valve from a 1, 2, or 4 zone biCoder is supported. Consult the Two-Wire Technical Specification for details.)

Wire Connectors Used: 3M™ DBR/Y-6 Other (specify): _____

(Failure to use supported, fully waterproof connectors can result in communication errors and can void extended warranty. Consult Baseline's Two-Wire Technical Specification for details on supported connector types.)

Total Two-Wire Devices to be Connected to the Controller

Initial	Final (estimated)	Description (Device Loads)
		BL-5201 Single Zone biCoder™ (½ load each)
		BL-5202 Dual Zone biCoder™ (½ load each)
		BL-5204 Four Zone biCoder™ (½ load each)
		BL-5212 12 Zone biCoder™ (2 loads each)
		BL-5224 24 Zone biCoder™ (2 loads each)
		BL-5201PR Pump Start Relay biCoder™ (1 load each)
		BL-5303 Air Temperature Sensor (1 load each)
		BL-5308 or BL-5309 Flow biCoder™ (3 loads each)
		BL-5311 Compact biSensor™ (1 load each)
		BL-5315B Original biSensor™ (1 load each)
		BL-5401 Outside Operation or BL-5402 Event biCoder™ (1 load each)
		Other (please specify): _____

Total Device Loads – Initial: _____ Final (within 5 years): _____

(A total of 110 device loads are supported per two-wire controller.)

Total Number of Zones – Initial: _____ Final* (within 5 years): _____

(*Final figures are intended to be an estimate of expected future system configuration and are primarily for the purposes of assuring that expectations match specifications. Coverage under the terms of this warranty does not depend on conformance of final estimates to specification limits. BASELINE DOES NOT WARRANT THAT FINAL CONFIGURATION PARAMETERS WILL BE WITHIN ACCEPTED SYSTEM SPECIFICATIONS. IT IS THE CUSTOMER'S RESPONSIBILITY TO STAY WITHIN SYSTEM SPECIFICATIONS WHEN ALTERING OR EXPANDING THE SYSTEM.)

Surge / Lightning Protection

When surge protection equipment is installed to specifications, Baseline warrants all Baseline equipment against damage caused by direct or indirect lightning strikes or other power surges for the entire warranty period. See the Terms and Conditions below for replacement details.

THIS WARRANTY IS LIMITED SOLELY TO BASELINE EQUIPMENT, AND DOES NOT WARRANT AGAINST DAMAGE CAUSED BY LIGHTNING OR OTHER POWER SURGES TO NON-BASELINE EQUIPMENT, WIRING, LANDSCAPE, OR FACILITIES. THIS WARRANTY DOES NOT COVER ANY EFFECTS TO LANDSCAPE OR PROPERTY DUE TO BASELINE EQUIPMENT'S OPERATION OR FAILURE TO OPERATE FOLLOWING A SURGE OR LIGHTNING STRIKE, NOR DOES IT COVER LABOR COSTS ASSOCIATED WITH TROUBLESHOOTING OR REPAIRS.

This warranty does include unlimited phone and Internet / e-mail support for troubleshooting and repairing lightning or surge damage to Baseline controlled irrigation systems. Baseline reserves the right to, at its sole discretion, repair or replace any Baseline controller or equipment in association with this warranty.

Important: Consult Baseline's Two-Wire Technical Specification and the Surge Arrestor & Grounding Specification for details on surge protection installation. Failure to install surge protection hardware to specification will void surge protection coverage under this warranty.

Has the controller been grounded per specification at the two-wire connection board?

Yes No Notes: _____

Is the controller connected to AC surge suppression?

(AC surge suppression is built in on pedestal units. Separate surge suppression is required for wall mount units.)

Yes No Notes: _____

Has the two-wire been grounded and protected using Baseline lightning arrestors per the specification?

Yes No Notes: _____

Are all lightning arrestors properly attached to acceptable ground rods or plates per specification?

Yes No Notes: _____

Total lightning arrestors installed – Initial: _____ Final (within 5 years): _____

Baseline Extended 5 Year Warranty Terms and Conditions

THIS WARRANTY IS CONTINGENT ON WRITTEN BASELINE APPROVAL, AS SET FORTH IN THE BASELINE APPROVAL SECTION, BELOW. Baseline's Extended 5 Year Warranty, once approved, supersedes any other Baseline warranty terms, under which circumstances Baseline's warranty obligations are limited to the terms set forth below:

Baseline warrants to the original consumer purchaser that the new Baseline system and associated components as outlined in the Extended Warranty Application will be free from defects in material and workmanship for a 5 Year Warranty Period. The start of the warranty period is from the date of installation of the system or component, as documented in the Extended Warranty Application. For replacement irrigation components, the warranty on the replacement component is the remainder of the warranty on the original component, or 90 days, whichever is longer.

If a customer detects a defective component, contact your installer, distributor, or Baseline at 1-866-294-5847 in order to receive warranty benefits.

Baseline will, at its option, repair or replace the component at no charge to the customer, provided it is returned during the warranty period, with transportation charges prepaid, to Baseline Inc. in Boise, Idaho. Baseline will pay return shipping of its choice. Computers, displays, controllers, and pedestal enclosures must be properly packaged in the original packaging or in Baseline approved packaging to obtain warranty service.

For warranty service, contact Baseline at 1-866-294-5847 to obtain a "Return Materials Authorization (RMA) number." A copy of the receipt or a bill of sale bearing the appropriate Baseline serial number and model number may be required for warranty service. Additional PO may be required. Credits may be applied.

Express/Cross-Shipping: At the request of the customer, and at Baseline's sole discretion in conjunction with issuance of an RMA number, Baseline may authorize the immediate shipment of urgent replacement parts directly to the customer without prior receipt of the defective part. Under these circumstances, Baseline must receive the original defective part within 30 days of shipment of the replacement part, or the customer will be billed for the full price of the replacement part. If the defective part, once evaluated by Baseline, is found to be in fully operating condition, Baseline may, at its sole discretion, bill the customer for the full price of the replacement part.

Warranty Exclusions

- Normal wear and tear, including discoloration due to direct burial or repeated immersion
- Abuse, unreasonable use, mistreatment, or neglect
- Damage caused during installation or incorrect installation

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- Damage caused by modification or repair not made or authorized by Baseline
- Computers or sub-components whose Manufacturer's Serial Number and/or Material Number label have been removed, torn, or defaced
- Damage caused by use of non-Baseline or Baseline approved packaging
- Damage caused by improper or improperly used packaging

THIS WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, WHETHER ORAL OR WRITTEN, EXPRESSED OR IMPLIED. Baseline SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND AGAINST INFRINGEMENT. No Baseline dealer, agent, or employee is authorized to make any modification, extension or addition to this warranty.

BASELINE IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF DATA, LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE OR REPLACEMENT OF EQUIPMENT AND PROPERTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied warranties, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Application Signatures & Instructions

After completing this form, please sign below and send via fax to Baseline at 1-208-323-1834. Please provide a contact name and information for Baseline to contact regarding details of this application, if necessary.

Application Date: _____

Contact Name: _____

Contact Address

Street: _____

City: _____

State: _____ Zip: _____

Contact Phone: _____

Contact Fax: _____

I, the undersigned, do hereby attest that the above information is true and correct for the installation or intended installation of this system. I understand that if this information is materially incorrect, the extended warranty may be voided. I further understand and agree to the terms and conditions set forth in this extended warranty.

Signature: _____

Printed name: _____

Company: _____

Title: _____

Please send approval via Fax, or US Mail, or Both to the contact name above.

Extended 5 Year Equipment Warranty Baseline Approval

(To be filled out by an authorized Baseline representative, only.)

Site/Project Name (for reference purposes): _____

Warranty Reference Number: _____

Date Application Received: _____

Based on the information provided in this Extended Warranty Application...

Extended 5 Year Equipment Warranty Coverage of this system is

Approved

Declined, Reason: _____

Surge/Lightning Coverage for this system is

Approved

Declined, Reason: _____

Additional Terms or Conditions

Approved by: _____

Printed name: _____

Title: _____

Date: _____

Please retain a copy of this extended warranty application and approval form with your controller.