

# JSF Technologies WP6 Chrosswalk Controller User Manual

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WP6 AB-SERIES

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#### **WARNINGS & PRECAUTIONS**

**BATTERIES:** Batteries will be fully charged upon arrival. Use caution when handling batteries as they can generate hazardous short-circuit currents. Remove all conductive jewelry (bracelets, metal-strap watches, etc.) before handling.

**POWER**: Ensure the equipment is not powered during installation. Inspection of connections and wiring should be made prior to final connection of the Solar Engine and battery.

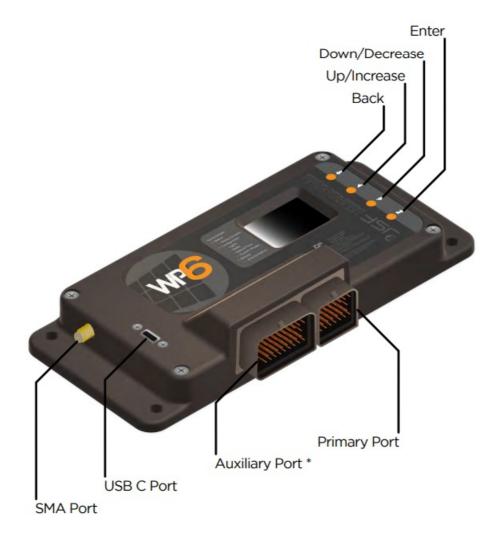
DESIGN & COMPATIBILITY: All JSF Technologies products are designed for use with specific industry components and may not be compatible with alternative industry parts or products. Please contact JSF Technologies for additional information and guidance prior to any system modification in the field.

**WARRANTY:** Failure to receive approval or guidance from JSF Technologies prior to system modification or installation of replacement parts could render the system inoperable and void warranty. See warranty details in appendix.

**INSPECTION OF GOODS:** All JSF Technologies solutions are delivered as installation-ready and do not typically require any preparation or wiring prior to installation. However, JSF Technologies recommends inspection of all shipments upon delivery / acceptance to ensure products arrive undamaged and in good working condition following transit.

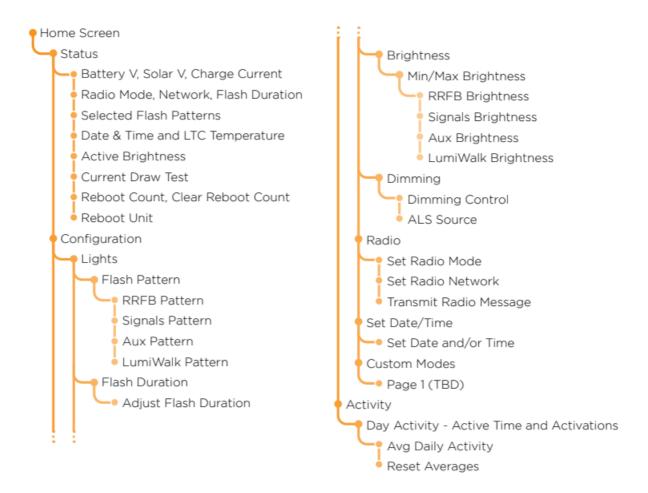
#### **CONTROLLER OVERVIEW**

### 2.1 PICTORIAL INDEX



\* Auxiliary port is used for the addition of optional equipment, please contact sales team to inquire about compatible products.

# **2.2 MENU DIRECTORY**



## **CONTROLLER OPERATION**

#### **HOME SCREEN**

When the WP6 is operating normally, the OLED screen will be kept off until a User Button is pressed. Once any User Button is pressed, the Home Screen will be displayed on the OLED Screen.



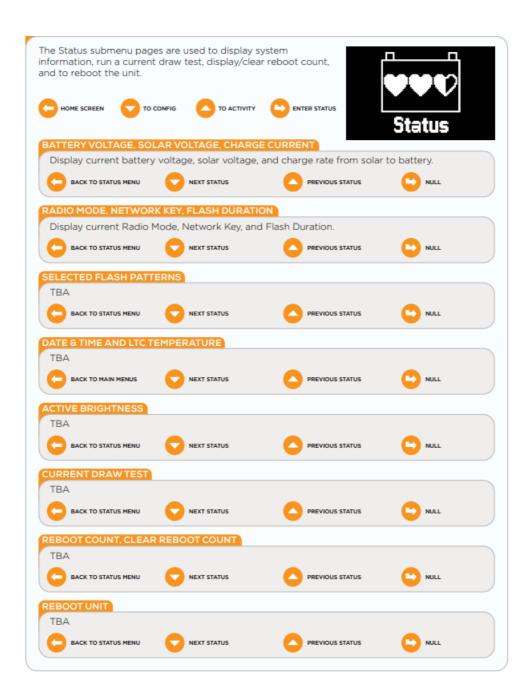
Once the OLED has been turned on a timer is started and refreshed each time a User Button is pressed. If no button is pressed before the timeout expires (2 mins), the OLED will be turned off. From the Home Screen, pressing any button other than the Back button will navigate to the first Top Level Menu Page, if the Back button is pressed the display is turned off.



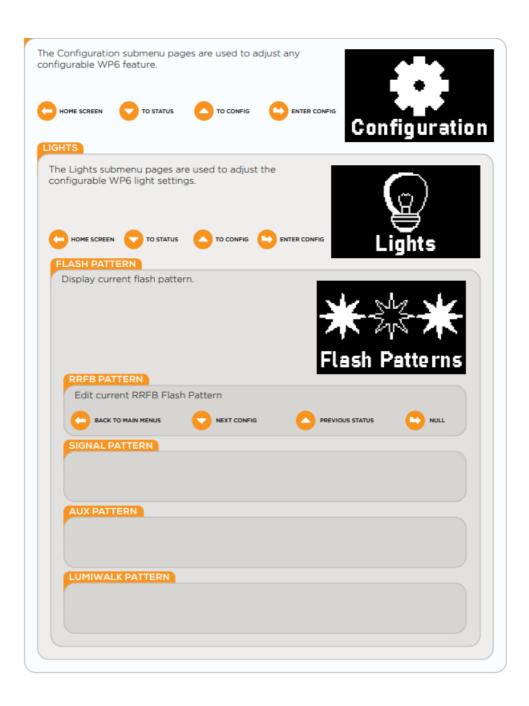




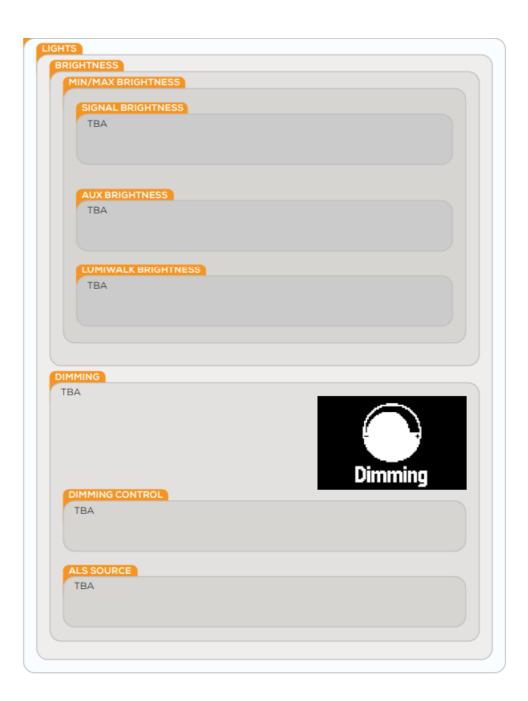


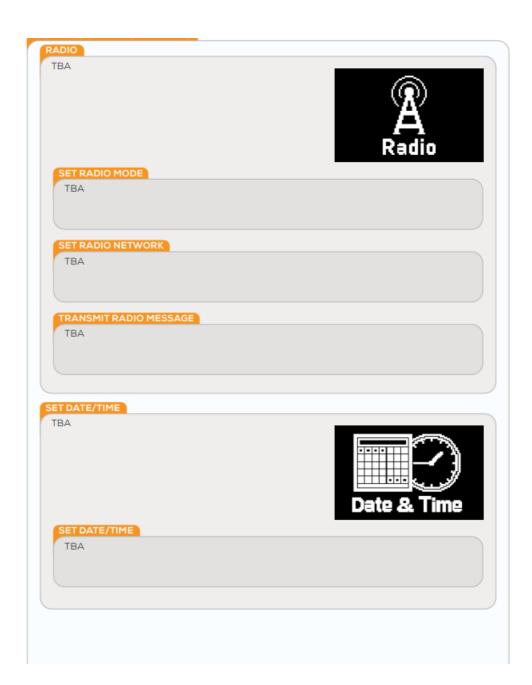


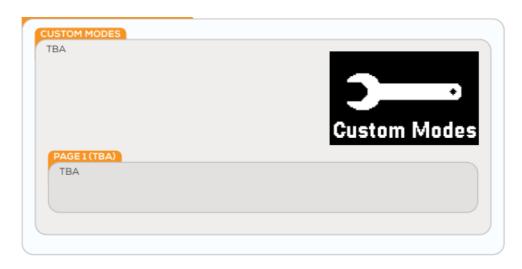
# **CONFIGURATION MENU**













## **TERMS, CONDITIONS & WARRANTY**

#### 4.1 JSF TECHNOLOGIES TERMS AND CONDITIONS

These terms and conditions govern the sale of all products, parts and components ("Products") and the provision of all services ("Services") by JSF Technologies, subsidiaries and affiliates ("Seller") to any purchaser of Products ("Buyer"). These terms and conditions ("Agreement") take precedence over any additional, supplemental or conflicting terms and conditions asserted by the Buyer or otherwise, including from Buyer's customers, to which notice of objection is hereby given. If Buyer does not agree with these terms and conditions, it shall notify Seller within one (1) working day after its receipt; otherwise, it is deemed to have been accepted. Neither Seller's commencement of performance or delivery shall be deemed or constituted as acceptance of Buyer's or any of its customers' supplemental or conflicting terms and conditions. Buyer's submission to Seller of an order for Products or acceptance of the Products from Seller shall be deemed to constitute confirmation and acceptance of the terms and conditions contained herein. THESE TERMS AND CONDITIONS MAY ONLY BE WAIVED OR MODIFIED IN A WRITTEN AGREEMENT SIGNED BY AN AUTHORIZED REPRESENTATIVE OF SELLER.

1. Orders All orders placed by Buyer are subject to acceptance by Seller. All orders must include a complete description of Products being purchased and quantities required. Orders may not be canceled or altered without Seller's written consent. Seller may in its sole discretion allocate Product among its customers. Seller

- may designate certain orders as non-cancelable and certain Product as non-returnable ("NCNR"). All orders containing custom terms shall be NCNR.
- 2. Prices, Pricing Terms and Payment All prices, specifications, terms and conditions are subject to change without notice. All orders will be invoiced at the price in effect when the order is received by the Seller. All quotations shall be valid for a period of 90-days unless otherwise stated. The prices and pricing terms for all Product sold by Seller are subject to any additional terms and conditions that may be set out on the Seller's Price List, which the Seller may amend from time to time. Pricing does not include installation, freight, transportation, insurance, taxes, duties, handling fees or customs charges. Full payment is due promptly upon placing an order unless credit has been pre-approved by the Seller. All credit terms are subject to Seller's credit policies then in effect. Interest shall accrue on any late payment at the rate of 3% per 30day period, beginning 1-day following agreed to payment term of the unpaid amount, which will be added to the amount due. Buyer hereby grants, and Seller hereby retains, a purchase money security interest in all Products and proceeds from any disposition thereof until Seller has received payment in full as provided herein. Invoice and service payments shall be made in form of Electronic Funds Transfer (EFT) or Check. Payment by Credit Card (Visa or Mastercard) will be accepted but will include a 3% service and processing fee.
- 3. Delivery and Title Delivery of Products from Seller to Buyer shall take place at the factory or warehouse location specified by Seller to the carrier who will transport the Products to Buyer (the "Delivery Point"), and delivery shall be deemed to have occurred when the Products are loaded on to the carrier's truck, trailer, train car or other mode of transport. Selection of the carrier and delivery route shall be made by Seller unless specified by Buyer. If the carrier is selected and hired by Seller, (1) Buyer will reimburse Seller for all transportation costs paid by Seller and (2) the Seller reserves the right to charge the Buyer for reasonable storage fees incurred if the goods are not picked up by the carrier within 72 hours of the mutuallyagreed on shipping date. Regardless of whether the carrier is selected and hired by Seller or Buyer, the carrier shall be Buyer's agent, and delivery of the Product to the carrier shall constitute delivery to Buyer, and title and risk of loss shall pass to Buyer upon delivery to carrier at the Delivery Point. Notwithstanding, Seller reserves all rights to hold shipments, dispose of goods and stop goods in transit, including, without limitation for Buyer's failure to pay on time. Buyer is responsible at its cost to insure all Products from and after delivery of the Products at the Delivery Point. Buyer acknowledges that lead times and delivery dates provided by Seller are estimates only. Seller reserves the right to ship before the delivery date if Product is available to ship. Seller shall not be liable for delays in delivery or for failure to perform due to a Force Majeure (defined below). In the event of delay caused by such event, the date of delivery shall be extended for a period equal to the time lost as a consequence of the delay in delivery without subjecting Seller to any liability or penalty. If Product is damaged, lost or stolen while in the custody of the carrier, the Seller shall be deemed to have performed its obligations in full, unless otherwise negotiated between Seller and Buyer. Delivery of a quantity, which varies from the quantity specified, shall not relieve Buyer of the obligation to accept delivery and pay for the Products delivered. Delay in delivery of one installment shall not entitle Buyer to cancel other installments. Seller reserves the right to discontinue Products without notice. If a Product is no longer available or in Seller's inventory, Seller reserves the right to cancel Buyer's orders related to such Product without subjecting Seller to any liability or penalty.
- 4. Acceptance/Returns Shipments will be deemed to have been accepted by Buyer upon delivery of the said shipments to Buyer or Buyer's agent unless rejected in accordance with this paragraph. Buyer shall perform whatever inspection or tests Buyer deems necessary as promptly as possible but in no event later than five (5) business days after delivery, after which time Buyer will be deemed to have irrevocably accepted the Products.

Any discrepancy in shipment quantity must be reported to Seller within five (5) business days of Buyer's receipt of the Products. In the event of an over shipment, Buyer shall have the option to return the excess Products to Seller at Seller's expense or to retain the excess Products (subject to adjustment of the invoice) and shall notify Seller of Buyer's election within five (5) business days after receipt of the Products, failing which Buyer will be deemed to have elected to retain and pay for the excess Products. Any Product restock returns shall be subject to compliance with Seller's return merchandise authorization ("RMA") policies and procedures as well as a restocking charge equivalent to 25% of the value of such Product as specified in Seller's invoice to Buyer, provided that the restocking charge will not apply to returned excess Products. Returned Products must be in the original packaging and conform to minimum package quantity ("MPQ") requirements. Products not eligible for return shall be returned to Buyer freight collect.

- 5. Product Warranty The Seller offers a limited warranty against defects in material and workmanship on its JSF Technologies branded Products ("Limited Warranty"). The Limited Warranty may vary for different Products. Information on the applicable Limited Warranty terms for the Product Buyer has purchased can be obtained by contacting JSF Technologies or by contacting your JSF Technologies representative or affiliate distribution partner. With the exception of the Limited Warranty, the Seller expressly excludes and disclaims any and all representations, warranties, conditions and guarantees, whether express, implied, or imposed by statute, including, without limitation, any warranty of merchantability, fitness for any particular purpose, title and noninfringement. Further exclusions and limitations are set out in the Limited Warranty terms. Products that are sold by the Seller and are not directly manufactured or branded by JSF Technologies ("Third Party Products") are sold AS IS, WHERE IS, and WITH ALL FAULTS by the Seller and without any express or implied warranty from Seller but may be accompanied by their manufacturers' standard warranties. The Buyeracknowledges that it has reviewed Seller's Limited Warranty terms and accepts their terms and conditions, including all limitations, exclusions, and disclaimers. The Buyer or end-user who purchases the Product assumes all responsibility and liability for loss or damage resulting from the handling or use of the Product. Seller's aggregate liability on any claim, whether in warranty, contract, negligence, or any other legal theory, for loss, damage or injury arising directly or indirectly from or in relation to the use of the Product shall in no event exceed the purchase price of the Product which gave rise to the claim. IN NO EVENT SHALL SELLER BE LIABLE FOR PUNITIVE, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHETHER FORSEEABLE OR NOT, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUES, LOSS OF USE OF GOODS, LOSS OF SERVICE OR LOSS OF BARGAIN.
- 6. Export Control/Use of Products Buyer certifies that it will be the recipient of Products to be delivered by Seller. Buyer acknowledges that the Products are subject to export and/or import control laws and regulations including those of Canada and, where applicable, the United States and the country in which Buyer is located. Buyer agrees that it shall, at the request of the Seller, provide end-user documentation and certification and that it shall otherwise strictly comply with all export laws of Canada, the United States and the country in which Buyer is located and assume sole responsibility for obtaining licenses and/or permits to export, re-export or import as may be required. The Buyer agrees that it shall not directly or indirectly export any Products to any country to which such export or transmission is restricted or prohibited.
- 7. Technical Assistance or Advice Technical assistance or advice offered by Seller in regard to the use of any Product or in connection with Buyer's purchases may be given at Seller's discretion and only as an accommodation to Buyer. The Seller reserves the right to charge for technical assistance or advice at its discretion and shall have no obligation to provide any technical assistance or advice to Buyer and if any such assistance or advice is provided, it is provided at the Buyer's own risk, without liability or responsibility on behalf of the Seller and such fact will not obligate Seller to provide any further or additional assistance or

- advice. No statement made by any of Seller's representatives or distribution partners in connection with the Products constitutes a representation or warranty, express or implied.
- 8. Limitation Period Notwithstanding any terms and condition of sale and subject at all times to any of the limitations expressed in the Limited Warranty, no action by Buyer may be brought at any time for any reason against Seller or any Product's manufacturer more than twelve (12) months after the facts occurred upon which the cause of action arose.
- 9. Governing Law and Dispute Resolution This Agreement shall be governed exclusively by the laws of the Province of British Columbia, Canada, excluding rules of international law that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (1980) does not apply to this Agreement. If Buyer's principal place of business is located within Canada, the parties hereby irrevocably attorn and submit to the exclusive jurisdiction of the Supreme Court of British Columbia sitting at Victoria, British Columbia, Canada in respect of all disputes arising under or in respect of this Agreement. If Buyer's principal place of business is located outside of Canada, then all disputes arising out of or in respect of this Agreement shall be determined by arbitration administered by the International Centre for Dispute Resolution in accordance with its International Arbitra-tion Rules. The number of arbitrators shall be one. The place of arbitration shall be Victoria, British Columbia, Canada. The language of the arbitration shall be English. Buyer hereby waives its right to trial by jury on any claim arising against Seller.
- 10. Force Majeure The Seller shall not be liable for its inability to secure sufficient quantities of any Product or Services, or failure to deliver due to causes beyond Seller's reasonable control including, but not limited to, acts of God, natural or artificial disaster, riot, war, strike, delay by carrier, shortage of Product, discontinued Services, acts or omissions of other parties, acts or omissions of civil or military authority, Government priorities, changes in law, material shortages, fire, strikes, floods, epidemics, pandemics, quarantine or other governmental restrictions, acts of terrorism, delays in transportation or inability to obtain labor, materials or Products through its regular sources, each of which shall be considered as an event of "Force Majeure" excusing Seller from performance and barring remedies for non-performance. If a Force Majeure event occurs, Seller's time for performance shall be extended for a period equal to the time lost as a consequence of the Force Majeure event without subjecting Seller to any liability or penalty. Seller may, at its option, cancel the remaining performance, without any liability or penalty, by giving notice of such cancellation to Buyer.
- 11. Indemnity Buyer shall indemnify, defend, and hold harmless Seller against all loss, liability, service, cost, and expense (including, without limitation, legal fees and costs) incurred by Buyer, any customer of Buyer or any end-user of the Products in connection with any claim for personal injury, loss or damage to property arising out of any Product unless such injury, loss or damage to property is solely attributable to the gross negligence of Seller or its employees.
- 12. Intellectual Property Seller owns and controls, throughout the world, all copyrights, trademarks, trade dresses, design patents, and/or all other intellectual property rights, including, but not limited to, common law, statutory, and other reserved rights, in the Products. Seller's intellectual property is for Seller's exclusive use, reuse, and sale at any time without restrictions.
- 13. Statute of Limitations Any claim or cause of action against Seller arising under this Agreement must be commenced within one (1) year after the claim or cause of action accrued. Any claim or cause of action which is not brought against Seller within the aforementioned time period shall be deemed irrevocably waived and forever barred, and Seller shall be forever released from liability for any loss, cost, expense, damage, and other remedy. Buyer hereby waives its right to trial by jury on any claim arising against Seller or in connection with any good or part sold or delivered by Seller to Buyer.

14. Miscellaneous If any part of this Agreement is invalid, all other parts of this Agreement remain enforceable. Any failure by Seller to exercise any of its rights shall not constitute or be deemed a waiver or forfeiture of such rights. This Agreement is the entire agreement between Seller and Buyer regarding its subject matter. All prior agreements and communications with respect to this Agreement's subject matter, whether verbal or written, are of no legal effect. This Agreement inures to the benefit of and is binding upon Seller and Buyer and their respective successors and permitted assigns.

#### 4.2 JSF TECHNOLOGIES 5-YEAR LIMITED WARRANTY

Updated January 2022

JSF Technologies provides the following 5-year Limited Warranty (Warranty) for all products manufactured by JSF Technologies. The following constitutes the terms and conditions of the 5-year limited warranty.

#### 1. JSF TECHNOLOGIES' 5-YEAR LIMITED WARRANTY

- 1.1. JSF Technologies warrants all products manufactured by JSF Technologies for a period of five years (5-years) from the original date of delivery, unless otherwise stated, in which products will be free from defects in materials and workmanship under normal use and conditions.
- 1.2. JSF Technologies' sole responsibility, and the purchaser's and users' exclusive remedy, shall be that JSF Technologies will repair or replace defective parts or products attributed to failures or defects in workmanship or materials free of charge. However, JSF Technologies shall in no way be liable for costs associated to rework or reinstallation in the field.
- 1.3. JSF Technologies may, at its discretion, provide credit towards repair or replacement of defective parts or products attributed to failures or defects in workmanship or materials, upon successful completion of RMA procedures and results of inspection. 1.4. If JSF Technologies chooses to offer a credit towards the purchase of a new Product, any applicable warranty period remaining from the original product purchased shall be applied to the new Product. All credits must be used within 160-days of issuance towards the purchase of new Products or credit may become invalid.
- 1.5. All warranty periods and conditions exclude consumable parts such as batteries and other third-party components or devices offered by JSF Technologies or authorized JSF Technologies distribution partners.
- 1.6. Replacement parts or products will carry the unexpired warranty of the parts or products they replace from the original date of purchase.
- 1.7. Warranty is only valid if the product is installed and operated for its intended use and maintained in accordance with the manufacturer's instructions and recommendations.
- 1.8. JSF Technologies shall be entitled to provide new or refurbished replacement parts or components, which shall be equivalent in performance, reliability, and functionality, to the original product purchased.
- 1.9. Claims made under this warranty will be honored only if JSF Technologies is notified of failure within the warranty period and provided with reasonable information requested by JSF Technologies to verify the cause of the failure.
- 1.10. JSF Technologies assumes no liability for any incidental or consequential damages, in any way related to the product regardless of any legal theory on which the claim is based.

#### 2. WHAT IS NOT COVERED UNDER JSF TECHNOLOGIES' LIMITED WARRANTY

- 2.1. JSF Technologies' 5-year limited warranty does not cover damage or product failure resulting from the following:
- 2.2. Failure due to normal wear and tear of product and/or system components.

- 2.3. Failure resulting from improper assessment of installation location and surrounding landscape that may reduce or inhibit system performance.
- 2.4. Accidents, vandalism, impact with a foreign object, or acts of nature. 2.4. Failure caused by abuse, misuse, or abnormal use outside its intended operation.
- 2.5. Improper installation or failure to follow published operating instructions.
- 2.6. External electrical work or service of surrounding infrastructures.
- 2.7. Improper handling, storage, or maintenance of products.
- 2.8. Unauthorized product modification or integration without expressed written consent or approval by JSF Technologies.
- 2.9. F ailure or discontinuance of third-party components or devices offered by JSF Technologies or authorized JSF Technologies distribution partners.
- 2.10. Service interruptions or discontinuance of third-party communications or software offered by JSF Technologies or authorized JSF Technologies distribution partners.

#### 3. WARRANTY RESTRICTIONS AND LIMITATIONS

- 3.1. JSF Technologies shall in no way be liable for costs associated with troubleshooting, repair, or re-work of defective products in the field.
- 3.2. JSF Technologies shall in no way be liable for costs associated for reinstallation of replacement products in the field.
- 3.3. This Warranty is not transferable and only applies to the original end-user or purchaser of the product.
- 3.4. The end-user or purchaser of the product assumes all responsibility and liability for loss or damage resulting from the handling or use of the Product.
- 3.5. Products that are sold but not directly manufactured or branded by JSF Technologies ("Third-party Products") are sold AS IS, WHERE IS, and WITH ALL FAULTS, and will carry the standard warranty period offered by the original equipment manufacturer.
- 3.6. JSF Technologies may void warranty validity of any claim, should the product defect or failure result from elements, actions or circumstance outlined in the Limited Warranty coverage and conditions.
- 3.7. JSF Technologies aggregate liability on any claim, whether in warranty, contract, negligence, or any other legal theory, for loss, damage or injury arising directly or indirectly from or in relation to the use of the Product shall in no event exceed the purchase price of the Product which gave rise to the claim. In no event shall JSF Technologies be liable for punitive, special, incidental, or consequential damages whether forceable or not, including but not limited to, loss of profits or revenues, or loss of use of goods or services.

## 4. PROCEDURE FOR MAKING WARRANTY CLAIMS

- 4.1. Prior to contacting JSF Technologies Customer Service Department, please have the following information available:
- Serial Number located on the face of the system controller.
- Location of the installation (city or town).
- A brief description of the issue and troubleshooting steps taken.
- 4.2. Contact JSF Technologies Customer Service Department for support and troubleshooting steps to determine if the issue can be resolved in the field or if an RMA (Return Material Authorization) needs to be issued. To obtain an RMA number, please email <a href="mailto:support@JSFTech.com">support@JSFTech.com</a> or call 1-800-990-2454 or see the JSF Technologies' website <a href="mailto:swww.JSFTech.com">www.JSFTech.com</a> for further contact information.
- JSF Technologies will open a case file on the issue and will collect all necessary information.
- Using the information and serial number provided, JSF Technologies will immediately inform the customer if the parts or product is still within the warranty period.

- If the issue cannot be resolved in the field, an RMA number will be assigned for return of the defective parts.
- Should the parts or products fail to be within the warranty period, the customer will be assessed a minimum fee of \$60.00/hour, for inspection and testing purposes.
- Any returning items MUST be packaged appropriately to ensure protection of goods during transit, and all packaging MUST be clearly marked with the assigned RMA number. JSF Technologies reserves the right to refuse any returning goods that have not been packaged appropriately and have incurred damaged while in transit. Shipping costs for the return of goods will be the sole responsibility of the customer.
- 4.3. Onc e the goods have been received by JSF Technologies, a physical inspection
- 4.4. and diagnostic testing of the product will be conducted to determine the cause of failure.
- JSF Technologies will compile a comprehensive report detailing the results of the tests conducted and determine if warranty applies, which will be provided to the customer.
- In the event the failure is deemed to be covered under warranty, the customer will receive replacement parts or products, with shipping to be paid for by JSF Technologies.
- In the event the failure is not covered under warranty, the customer can choose from the following options:
- a) Procure new or refurbished (if available) replacement parts or products through JSF Technologies or designated JSF Technologies Distributor.
- b) If the failed parts or products can be renewed to function and perform to the standards of the original product purchased, JSF Technologies will provide a quote for the necessary parts, labor, and testing required for refurbishment, which will be expensed to the customer. Associated shipping costs will apply.
- In the event no failure is found after conducting physical and diagnostic inspection and the parts or products pass standard testing and quality assurance procedures, JSF Technologies reserves the right to charge the customer with associated labor and testing expenses incurred at a minimum fee of \$60.00/hour, after which the customer may choose to accept all associated costs with shipping expenses included, anad have all parts or products returned to them for future use.

Note: The WP6 modular transmitter is only to be used by JSF Technologies as incorporated into its own products, and it is not intended for sale to third parties.

Specifications and information contained in this manual are current at time of printing and are subject to change at any time without notice.

FCC ID: SFIWP6 IC: 5301A-WP6

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference, including interference that may cause undesired operation of the device. Changes or modifications to this device, not expressly approved by JSF Technologies Inc.. could void the user's authority to operate the equipment.

This device complies with Industry Canada?s license-exempt RSSs. Operation is subject to the following two conditions.

- 1. This device may not cause interference; and
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.



Contact JSF Technologies for further information regarding JSF Technologies products.

(Sales)

Sales@JSFTech.com

(Support)

Support@JSFTech.com

1-800-990-2454 1-800-990-2454

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## **Documents / Resources**



<u>JSF Technologies WP6 Chrosswalk Controller</u> [pdf] User Manual WP6 Chrosswalk Controller, WP6, Chrosswalk Controller, Controller

# References

- # LED Traffic Safety Solutions. Innovation from JSF Technologies
- User Manual

Manuals+, Privacy Policy