

# Fire Pull Station With Transmitter

Model #302

Rev #1.1

**Description:** The Model #302 is a self-contained red Lexan Pull Station with a built-in integrated transmitter used for reporting to wireless products manufactured by World Electronics. This unit complies with UL 38 standards and may be used in installations where compliance with The National Fire Protection Association (NFPA) National Fire Alarm Code is used

**Coding:** The Model #302 board contains 2 dip switches labeled in 4 groups; TYPE, VERT, HORZ, and RF. These switches set the alarm TYPE, the VERTical and HORiZontal control panel identification, and the system's RF code. Refer to the system's manual for coding details.

**Operation:** When the station's handle is pulled:

1. A short delay insures that spikes or static discharges will not cause an alarm transmission.
2. Following this delay, if the alarm condition persists, an initial alarm signal is sent.
3. A 30 second delay occurs. If during this delay the alarm condition is reset, the cycle ceases.
4. The continued alarm condition causes a "Level 2" (Bit 18) alarm transmission.
5. Another 30 second delay as in Step 3.
6. The continued alarm causes a "Level 3" combination (Bit 17 & 18) alarm to be sent.
7. Steps 5 and 6 continue until reset.

**Testing the Model 302** The test is initiated by placing a strong magnet along the right side of the pull station and removing it. This starts the following sequence:

1. The pull station transmits a tamper signal (Bit 19) which will be displayed on the control panel as a tamper alert showing the location that the pull station is coded to.
2. A 40 second delay occurs.
3. A repeater signal survey transmission is sent. Refer to the Signal Survey Manual or the Repeater Manual for details.

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**Low Battery Alert:** Battery voltage under-load is automatically tested prior to every transmission (not less than once every 1.2 hours). In the event that a low battery is detected, a transmission with the low battery bit (Bit 20) set will occur every 1.2 hours for a minimum of seven days

World Electronics, Inc.  
Limited 2 Year Warranty

ANY PART OF THE SMOKE ALARM (BATTERY EXCLUDED) MANUFACTURED BY WORLD ELECTRONICS, INC. WHICH PROVE TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP WITHIN TWO YEARS OF THE DATE OF SHIPMENT WILL BE REPAIRED OR REPLACED AT WORLD ELECTRONICS OPTION WITH A NEW OR FUNCTIONALLY OPERATIVE PART. THIS LIMITED WARRANTY APPLIES ONLY TO THE ORIGINAL PURCHASER AND IS NOT TRANSFERABLE.

CONDITIONS NOT COVERED BY THIS LIMITED WARRANTY:

- A. DAMAGE RESULTING FROM ACCIDENTS, ACTS OF GOD, ALTERATION, MISUSE, TAMPERING, AND ABUSE.
- B. FAILURE OF PURCHASER TO PROPERLY FOLLOW INSTALLATION AND OPERATING INSTRUCTIONS PROVIDED BY WORLD ELECTRONICS, INC. AT THE TIME OF INSTALLATION AND SET FORTH IN THE OPERATING MANUAL PROVIDED.

THE DETECTOR SHOULD BE PACKED CAREFULLY IN A WELL PADDED AND INSULATED CARTON AND RETURNED, POSTAL CHARGES PREPAID TO:

SPEC-TEC MANUFACTURING, INC.  
REPAIR DEPARTMENT  
10794 N.W. 53 STREET  
SUNRISE, FL 33351 USA

A NOTE SHOULD BE INCLUDED ADVISING THE NATURE OF THE MALFUNCTION.

CARE MUST BE EXERCISED IN THE PROPER PACKING OF DETECTORS RETURNED UNDER THIS WARRANTY, AS MANUFACTURER WILL NOT BE RESPONSIBLE FOR WARRANTY REPAIRS TO EQUIPMENT DAMAGED DUE TO IMPROPER PACKING.

**Tamper Alert:** The Pull Station is equipped with tilt sensor which will sense a tamper when the unit is tilted approximately 60 degrees in any direction. Upon detection of a tamper, a tamper signal (Bit 19) is sent and repeated every 30 seconds until the tamper condition is restored. During other transmissions, the tamper bit will be set if a tamper condition exists.

The user is hereby notified that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Design Parameters:**

- \* **Battery Life:** 12 months minimum
- \* **Battery:** 9 volt; Duracell #MN1604 (Alkaline) or  
Eveready #522 (Alkaline) or  
Rayovac #A1604 (Alkaline) or  
Eveready #1222 (Zinc Carbon) or  
Eveready #216 (Zinc Carbon) or  
Rayovac #D1604 (Zinc Carbon) or  
UltraLife #U9VL (Lithium)  
Ultralife #U9VL-J (Lithium)

(For current information on life histories, or suitability contact the Field Service Dept.)

- \* **Battery Replacement:** During annual cleaning and/or upon a low battery report.
- \* **Operating Temperature Range:** 0° C to +49° C.
- \* **Operating Humidity Range:** 0 to 85% RH.
- \* **Testing:** bimonthly or per local requirements.
- \* **Cleaning:** Annually or per local requirements.
- \* **Transmission:** In compliance with FCC Part 15 for reception on equipment manufactured by World Electronics.
- \* **Test Transmission:** Every 1.2 hours.
- \* **Format:** World Electronics frequency shift tone encoded with enhanced carrier shifting.
- \* **Compatibility:** World Electronics 2085B.
- \* **Size:** 5.75 in. high, 4.75 inches wide, 3.0 in. deep (from wall)
- \* **Weight:** 8 oz. nominal (0.23 kg)
- \* **US Patent #** 4,862,514

**Following the Codes** The Model #302 should be installed in accordance with the National Fire Protection Association's (NFPA) Standards.

**Limited 2 Year Warranty**

ANY PART OF THE MODEL #302 PULL STATION (BATTERY EXCLUDED) MANUFACTURED BY WORLD ELECTRONICS, INC. WHICH PROVE TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP WITHIN TWO YEARS FROM THE DATE OF SHIPMENT WILL BE REPAIRED OR REPLACED AT WORLD'S OPTION WITH A NEW OR FUNCTIONALLY OPERATIVE PART. THIS LIMITED WARRANTY RUNS ONLY TO THE ORIGINAL PURCHASER AND IS NOT TRANSFERABLE.

**CONDITIONS NOT COVERED BY LIMITED WARRANTY:**

- A. DAMAGE RESULTING FROM ACCIDENTS, ACTS OF GOD, ALTERATION, MISUSE, TAMPERING, AND ABUSE.
- B. FAILURE OF PURCHASER TO PROPERLY FOLLOW OPERATING INSTRUCTIONS PROVIDED BY WORLD AT THE TIME OF INSTALLATION AND SET FORTH IN THE OPERATING MANUAL PROVIDED.

THE PRODUCT SHOULD BE PACKED CAREFULLY IN A WELL PADDED AND INSULATED CARTON AND RETURNED, POSTAL CHARGES PREPAID TO:

WORLD ELECTRONICS INC.  
REPAIR DEPARTMENT  
12233 N.W. 35 STREET  
CORAL SPRINGS, FL 33065 USA

A NOTE SHOULD BE INCLUDED ADVISING THE NATURE OF THE MALFUNCTION. CARE MUST BE EXERCISED IN THE PROPER PACKING OF PRODUCTS RETURNED UNDER THIS WARRANTY AS MANUFACTURER WILL NOT BE RESPONSIBLE FOR WARRANTY REPAIRS TO EQUIPMENT DAMAGED BECAUSE OF IMPROPER PACKING.

# Mounting Template

Verify Leveling

## Cautions

- 1- When closing the case make sure the screws are going into the mounting posts and not damaging the printed circuit board.
- 2- Make sure the battery is firmly mounted in the battery clip.
- 3- The unit must be secured tightly to the wall so as not to be dislodged if handled roughly during an emergency.
- 4- Test the unit after service or battery change.

# MODEL #302 TRANSMITTER REV. 2.1 BOARD

