

SmaRT OO-218-DIS Handheld Remote

Features

- ✓ 2.4 GHz Spread Spectrum Technology
- ✓ 300 ft. (100 m) Line-of-Sight Range
- ✓ 18-Button Control
- ✓ Two Line LCD Display with Backlight and Contrast Control
- ✓ LED Indicators
- ✓ Rugged High-Impact Polymer/Polycarbonate/Stainless Steel Enclosure
- ✓ Weatherproof Design Powered by Two 9 V Batteries



The SmaRT OO-218-DIS Handheld Remote is an 18-button handheld remote using 2.4 GHz DSSS technology to provide a 300 ft. line-of-sight handheld-to-base unit communication range. The handheld has 18 buttons, allowing ON/OFF and custom factory configuration of up to 16-function control of a SmaRT base unit. The two-line display provides instant verification of control activity. The adjustable backlight and contrast functions allow users to control power consumption levels.

The unit enclosure is constructed of rugged high-impact polymer with a polycarbonate faceplate on the display. A stainless steel faceplate is securely attached to provide additional ruggedness. Using Channel-Hopping Direct Sequence Spread Spectrum (DSSS) wireless technology at 2.4 GHz, the handheld provides a robust link in congested radio environments with a variety of SmaRT base units including the powerful BU-916F. SmaRT handheld remotes feature seamless association with SmaRT base units without the need to open either the handheld or base unit case.

Specifications

Power

Batteries	Two Type PP3 +9 V Alkaline
Auto-shutdown	30 sec. of button inactivity

Environment

Operating Temp	-20° C to 55° C (-4° F to 131° F)
Storage Temp	-20° C to 55° C (-4° F to 131° F)
Humidity	0 to 100%

Display

Screen	2-line LCD 8 characters per line
Viewable	1.5" x 0.64" (38.1 mm 16.3 mm)

LED Indicators

Green Flashing	Transmit
Green Solid	Button press (switch active)
Amber Flashing	Message received
Amber Solid	Active base unit output

Radio

Frequency	2405–2480 MHz
RF Power	2 mW
License	License-free
Modulation	Channel-Hopping DSSS
Antenna	Internal

Enclosure

Dimensions	9 $\frac{1}{8}$ " x 3 $\frac{1}{8}$ " x 1 $\frac{1}{4}$ " (231.8 mm x 79.4 mm x 31.8mm)
Total Weight	15.2 oz. (430.9 gr.)
Durability	High impact polymer case Polycarbonate faceplate Stainless steel faceplate

Control Functions

Pushbuttons	One ON; one OFF; and sixteen function
Style	Latching or Momentary
Button Life	5 million operations (typical)

Association

Communication between the handheld remote and base unit must be established before the system can be used. This link process is called “Association,” and it is performed while the handheld remote is in Associate Mode. Association between remote and base unit is established at the factory; however, there may be instances in the field when a handheld remote and a base unit must be re-associated. *Power must be removed from the base unit, and the handheld must be OFF.* When necessary, Association can be performed as follows:

1. Remove power from the base unit and turn off the handheld.
2. Stand near the base unit with the handheld in clear line-of-sight.
3. Simultaneously press and hold the **ON** button and button **12**. The handheld remote displays its initialization screens and settles on **ASSOC PENDING**.
4. Continue to hold both buttons until **ASSOC ACTIVE** displays after approximately four seconds.
5. Release both buttons. The display will show **CLR CHAN SCAN**. The handheld remote scans all available channels and chooses the channel with the least traffic.
6. Press button **1**. The handheld displays **POW UP BUNIT?**
7. Power up the base unit. The handheld will Associate (link) with the base unit. Upon success, the display shows **ASSOC SUCCESS**.



The handheld and base unit link can be viewed by holding down the **ON** button and button **9** at the same time. The display will cycle and indicate the selected channel and the ID of the base unit.

✓ **Note:** *Button numbers and text can be designed to meet customer needs.*

Backlight and Contrast Adjustment

Although adjustments can be made while the base unit is ON, to avoid inadvertent commands to outputs, Cervis suggests that you power down the BU-906R base unit while adjusting the display contrast or backlighting.

To adjust the Contrast

1. Press **ON** and then power down the base unit.
2. Increase the contrast by simultaneously pressing **ON** and button **13**.
3. Decrease the contrast by simultaneously pressing **ON** and button **16**.

To adjust the Backlight

1. While the handheld remote is ON and the base unit is powered down, increase the backlighting by simultaneously pressing **ON** and button **11**.
2. Decrease the backlighting by simultaneously pressing **ON** and button **14**.

System Information Review

Review system information in the display by pressing **ON** and button **9** at the same time. The following information cycles through on the display while the buttons are held: BASE UNIT MESSAGES PER SECOND; CHANNEL; HANDHELD ID; BASE UNIT ID; BATTERY VOLTAGE.