2-, 4-, & 6-Button Application Tool

M009.0.5-246_But_App

Customer Name:			
Contact Name:			
Email:		**Phone:**	
Application Description / Machine Type:			
Date of Submission:		**Revision:**	

This tool is designed as a pre-sale document to aid in the communication and documentation of the application. The information presented in this document will be used for quoting purposes, and therefore we recommend you provide as much detail as possible so that the following proposal reflects the total requirements as closely as possible. Should any questions arise during use of this document, please contact the Cervis, Inc. sales department at 724-741-9000. Thank you for considering Cervis, Inc. We look forward to working with you in your application.

Application Description

Describe application including environment of operation:

Radio Frequency Operation Options

900MHz - 10mW Output Power (Typical Range ~300m)

*900MHz systems come with FCC and IC certification(s).

**2.4GHz systems come with FCC, IC, and CE certification(s), and all other applicable certifications.

✔ ***Note:*** *Range estimations above are not guarantees and are dependent on device-to-device relationship and obstructions that will reduce the quality of the radio frequency (RF) link. Operating distances mentioned above are results based on good "conditions" and "line of sight" between devices.*

2-, 4-, & 6-Button Design

The SmaRT Wireless 2-, 4-, & 6-button remote is available in multiple configurations that are derived from three standard physical layouts. Minor adjustments to the layouts can be accommodated. Major layout requests will be quoted based on the supporting business case.

Standard Layout Choices

◯ 2-Button ◯ 4-Button ◯ 6-Button

2-, 4-, & 6-Button Type of Operation

PTO – Push to Operate

◯ [Unit activates when button is pressed and deactivates shortly after button is released.]

DO – One Button, ON/OFF

◯ [One button is designated to activate and deactivate the unit.]

OO – Two Buttons, On and OFF

◯ [One button is designated to activate the unit and a different button is designated to deactivate the unit.]

If DO/OO Handheld button, inactivity Time-Out: _____ minutes.

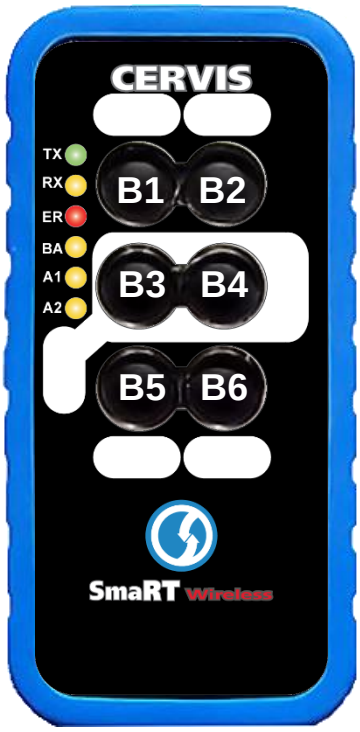
Pushbutton Style:

Raised pushbutton

2-, 4-, & 6-Button Labeling

The standard labeling option gives the SmaRT brand label (pictured above) button function indications in the white text field areas. Two standard options for text size are offered (see chart below for details). Custom graphic labeling/branding is also available – please contact us to discuss. Please fill out the desired button labeling in the chart below. If filling out the form for two- or four-button handhelds, leave unused buttons blank.

BUTTON	TEXT					
1						
2						
3						
4						
5						
6						

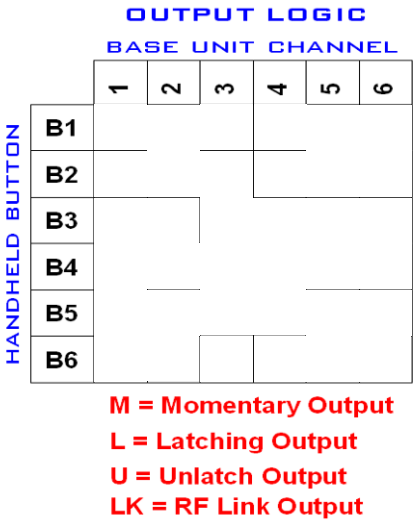


○	LABELING OPTION 1 SINGLE LINE TEXT: 7 PT FONT (MIN) 11 PT FONT (MAX)
○	LABELING OPTION 2 TWO LINE TEXT: 7 PT FONT (MIN) 8 PT FONT (MAX)
○	LABELING OPTION 3 CUSTOM GRAPHIC LABEL

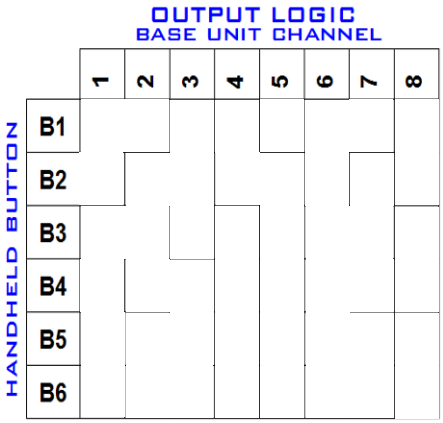
Company Logo: Cervis, Inc./SmaRT Logo (Default)

2-, 4-, & 6-Button Output Logic

Fill out the output logic table by placing one of the letter designations that reflects your desired functionality for each button. For example, if you want button 1 (B1) to control output 1 in a momentary fashion and output 5 in a latching fashion: Place an “M” on Handheld Button line “B1” in the block for Output Logic Base Unit Channel 1 and an “L” in the block for Output Logic Base Unit Channel 5. (You may also have to make an unlatch designation to unlatch output 5. In this case, place a “U” in the appropriate block for the button that will unlatch output 5.)



M = Momentary Output
L = Latching Output
U = Unlatch Output
LK = RF Link Output



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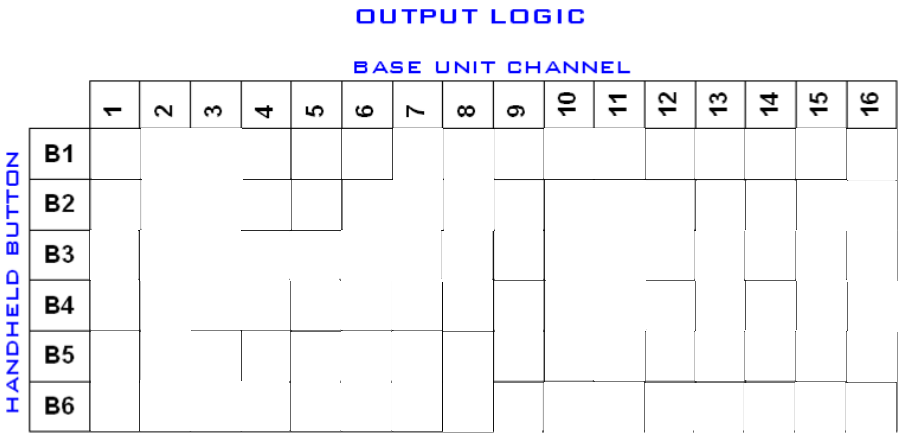
LK = RF Link Output



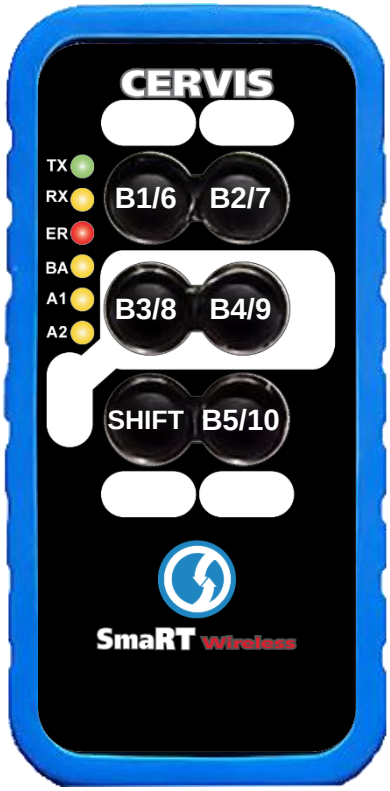
M = Momentary Output
L = Latching Output
U = Unlatch Output
LK = RF Link Output

Describe if you require output interlocking – a condition where having two outputs on at the same time (such as oposing functions) is not desired:

2-, 4-, & 6-Button Accessories

☐ Belt Clip option: Belt clip mounted to the backside of the handheld (standard option is with a lanyard)

☐ Shift function: Only available on 6-button models to give them a total of 10 independent function commands. Typically, this is configured by using one button designated as “Shift.” Holding the Shift button and another button accesses secondary function(s). (See example below.)



Base Unit Antenna Options

- ◯ Internal Antenna (Typically used when mounting base unit outside of other enclosures)
- ◯ External Antenna

Mounted to Base Unit

Panel Mount Bulkhead

Straight Connector

Right Angle Connector

900Mz Antenna
7-inch length
Right Angle/Straight

2.4GHz Antenna
6-inch length
Right Angle/Straight

Base Unit Power Supply

- ◯ 7–28 VDC*
- ◯ 110–340 VDC**
- ◯ 110–220 VAC 47–440Hz
- ◯ 12–24 VAC**

*Some models have split low voltage DC specifications 9–12VDC or 18–36VDC
**Not available on all base unit models

Describe power supply type:

Base Unit Output Requirements

☐ Relay contacts ☐ Normally open contact Quantity: ____

☐ Normally closed contact Quantity: ____

Contact Rating

☐ Resistive: 5A at 250 VAC or 30 VDC

☐ Resistive: 10A at 250 VAC or 30 VDC

☐ Inductive: 2A at 250 VAC or 30 VDC (proposal will include snubber circuits on contacts)

Describe output interface:

☐ Pulse Width Modulation (PWM) output PWM Frequency: _____Hz

Coil Resistance: _____Ω

Quantity: _____

☐ Current control Initial Current: _____mA

Final current: _____mA

Quantity: _____

☐ Analog output Variable voltage: ____ to ____VDC

Ratiometric Variable Voltage:

____ to ____VDC

Valve Error Detection No

☐ 4–20mA

Describe output interface/valve type:

Base Unit Output Requirements (Continued)

☐ Motor Reversing H-Bridge 25A Max Load @ 55°C 12 VDC

Base Unit Data Communication Requirements

None

Base Unit Output List

	Function Name	Output Type	Logic: Special Requirements
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			

Base Unit Input Requirements

- ◯ 4–20mA
- ◯ Variable voltage: ____ to ____VDC
- ◯ Digital
  - ☐ High side voltage: _____
  - ☐ Low side (contact to power supply ground)
- ◯ None

Base Unit Input List

	Function Name	Input Type	Logic: Special Requirements
1			
2			
3			
4			
5			
6			

Describe input interface/device:

Base Unit Options

◯ Four character LED alphanumeric display

Display Example

◯ Eight character LED alphanumeric display

◯ None

Describe desired display usage:

Base Unit Software Requests

Link Definition

◯ **Safety LINK Enabled** (where all outputs will clear upon loss of link)
(Feature not available with PTO version handhelds)

◯ **Safety LINK Disabled** (where latched commands will remain latched upon loss of link, but all momentary commands that are active deactivate)

Component Architecture

◯ **One to One** (where one handheld and one base unit have an exclusive pairing)

◯ **Many to One** (where more than one handheld can be paired to a base unit)

◯ **One to Many** (where one handheld is paired to several base units)

◯ **Many to Many** (open architecture where many handhelds and base units are paired)

Describe any special requirements – including quantities of Many-to-One, One-to-Many, or Many-to-Many configurations:

Standard Base Unit Wiring Offering

36" - 1m (multi-conductor cable)

Base Unit Mounting

- ◯ Outside Environment
- ◯ Inside Environment
- ◯ Inside Other Enclosure

Metallic Enclosure

Customer Approval

Required (Send to Customer for Final Approval)

Visit our Web site at: **www.cervisinc.com**