



10 Button Application Tool

Customer Name: _____

Contact Name: _____

Email: _____ Phone: _____

Application Description / Machine Type: _____

Date of Submission: ____/____/____ Revision: _____

10 Button Model Application Tool

Thank you for considering Cervis, we look forward to working with you in your application.

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 it is recommended to provide as much detail as possible such that the following proposal reflects the total requirements as closely as possible.

Should any questions arise during use of this document please contact Cervis' sales department at 724-741-9000. Thank you for considering Cervis, 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)

- 2.4GHz 100mW Output Power (Typical Range ~300m)

Note: Range estimations above are not guarantees and are dependent on device to device relationship and obstructions that will reduce the quality of the RF link. Operating distances mentioned above are results based upon good “conditions” and “line of sight” between devices.

Configuration selections are listed in **BOLD** and **underlined** in the following document.

10 Button Design



	<u>FUNCTION:</u>	<u>CUSTOM LOGIC</u>
RED	Power off	
B1		
B2		
B3		
B4		
B5		
B6		
B7		
B8		
B9		
B10		
GREEN	Power on	

_____ Standard write on label

_____ Custom Text label

_____ Custom Graphic label

Handheld Inactivity Timeout

- 4 Minutes 10 Minutes Other _____ Minutes

Base Unit Antenna Options

- Internal Antenna (Typically used when mounting base unit outside of other enclosures)
- External antenna
- Mounted to Base Unit
 - With 3 foot extension cable (straight connector to panel mount bulkhead)
 - With 10 foot extension cable (straight connector to panel mount bulkhead)
 - With 10 foot extension cable (right angle connector to panel mount bulkhead)
 - With 20 foot extension cable (right angle connector to panel mount bulkhead)



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* 110-220 VAC 47-440Hz
- 110-340 VDC** 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

- | | | |
|---|--|-----------------|
| <input type="checkbox"/> Relay contacts | <input type="checkbox"/> Normally open contact | Quantity: _____ |
| | <input type="checkbox"/> 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)

Resistive load example: indicator light
Inductive load example: valve or relay coil

Describe output interface: _____

-
- | | |
|---|---------------------------------|
| <input type="checkbox"/> PWM (Pulse Width Modulated) output | PWM Frequency: _____ Hz |
| | Coil Resistance: _____ Ω |
| | Quantity: _____ |

- | | |
|--|---------------------------|
| <input type="checkbox"/> Current control | Initial Current: _____ mA |
| | Final current: _____ mA |
| | Quantity: _____ |

- | | |
|--|----------------------------------|
| <input type="checkbox"/> Analog output | Variable voltage: ___ to ___ VDC |
|--|----------------------------------|

- | |
|---------------------------------|
| <input type="checkbox"/> 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

CAN Bus J1939

CAN Bus CAN Open

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			

Function Name Example: Drive Forward, Drive Reverse, Rotate CCW, Rotate CW, etc.

Output Type: Latching, Momentary, PWM, Current, Analog, H-Bridge, CAN Bus, etc.

Logic/Special Requirements: Describe which button or switch activates that output or special conditions for output, i.e., if the output is conditioned on an Input or other function

Base Unit Input Requirements

- 4-20mA
- Variable voltage: ___ to ___ VDC
- Digital
- High side voltage: _____
- Low side (contact to power supply ground)

Base Unit Input List

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

Function Name Example Boom Pressure, Extend Limit
Input Type: Variable voltage, 4-20mA, Dry contact, etc.
Logic/Special Requirements: Describe if input interacts with other functions

Describe input interface/device: _____

Base Unit Options

Four character LED alphanumeric display



Display Example

Eight character LED alphanumeric display



Describe desired display usage: _____

Base Unit Software Requests

Link Definition

Safety LINK Enabled (where all outputs will clear upon loss of link)

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: _____

Standard Base Unit Wiring Offering

36" (multi-conductor cable)

96" (multi-conductor cable)

Base Unit Mounting

Base Unit Mounting:

Outside Environment

Inside Environment

Inside other enclosure Metallic enclosure Polymer Enclosure



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