CERVIS™ INC.

Wireless SmaRT™

10-Button Application Tool

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

**Thank you for considering Cervis, Inc.
We look forward to working with you in your application.**

This tool is designed as a pre-sale document to aid in application communication and documentation. The information presented in this document will be used for quoting purposes. Therefore, we recommend that you provide as much detail as possible so that the proposal reflects the total requirements as closely as possible. If you have any questions while completing this document, please contact our sales department at 724-741-9000.

Application Description

Describe application, including operating environment:

Radio Frequency Operation Options

Note: Range estimations are not guarantees and depend 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.

10-Button Transmitter Design

Belt Clip

	FUNCTION ?	**CUSTOM LOGIC**
RED	Power off	
B1		
B2		
B3		
B4		
B5		
B6		
B7		
B8		
B9		
B10		
GREEN	Power on	

Label Options:

Company Logo:

Lanyard or Belt Clip:

LED A1/A2 Options:

Transmitter Inactivity Timeout

☐ **4 Minutes** ☐ **10 Minutes** ☐ **Other** _____ **Minutes** ☐ **None**

Receiver Antenna Options

☐ Internal Antenna (Typically used when mounting receiver outside of other enclosures)

☐ External antenna

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

Receiver Power Supply

☐ 7–28 VDC*   ☐ 110–220 VAC   47–440Hz

☐ 110–340 VDC**   ☐ 12–24 VAC**

*Some models have split low-voltage DC specifications (9–12 VDC or 18–36 VDC)
**Not available on all receiver models

Describe power supply type:

Receiver Output Requirements

| ☐ | Relay contacts | ☐ | Normally Open Contact | Quantity: | [   ] |
| | | ☐ | Normally Closed Contact | Quantity: | [   ] |

| ☐ | Solid State | ☐ | High Side Output | Quantity: | [   ] |
| | | ☐ | Low Side Output | 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: [_____]

☐   4–20mA

Describe output interface/valve type:

[   ]

Receiver Output Requirements (Continued)

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

Receiver Data Communication Requirements

☐ CAN Bus J1939   ☐ For Receiver-to-Receiver or Umbilical support.
☐ For network connection using standard Cervis messaging.
☐ Custom messaging. *Please detail below.*

☐ CAN Bus CAN Open
Please detail requirements below.

☐ None

Receiver 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 Counter Clockwise, Rotate Clockwise, etc.
Output Type: Latching, Momentary, PWM, Current, Analog, H-Bridge, Control Area Network (CAN) Bus, etc.
Logic/Special Requirements: Describe which button or switch activates that output or special conditions for output (that is, if the output is conditioned on an Input or other function)

Receiver Input Requirements

☐ 4–20mA

☐ Variable voltage: ___ to ___VDC

☐ Digital   ☐ High side voltage: _____

                 ☐ Low side (contact to power supply ground)

☐ None

Receiver Input List

	Function Name	Input Type	Logic: Special Requirements
1			
2			
3			
4			
5			
6			
7			
8			

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:

Receiver Options

☐ Four-character Light-Emitting Diode (LED)
alphanumeric display

☐ Eight-character LED alphanumeric display

☐ None

Display Example

Describe desired display usage:

Receiver Software Requests

Link Definition

☐ **Safety Link Enabled** (where all outputs will clear on loss of link)

☐ **Safety Link Disabled** (where latched commands will remain latched on loss of link, but all momentary commands that are active deactivate)

Component Architecture

☐ **One-to-One** (where one transmitter and one receiver have an exclusive pairing)

☐ **Many-to-One** (where more than one transmitter can be paired with a receiver)

☐ **One-to-Many** (where one transmitter is paired with several receivers)

☐ **Many-to-Many** (open architecture where many transmitter and receivers are paired)

Describe any special requirements:

Standard Receiver Wiring Offering

Receiver Mounting

Receiver Mounting:

☐ Outside Environment

☐ Inside Environment

☐ Inside other enclosure

Customer Approval

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