



Mini-Console Box Application Tool M018.0.5

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 the communication and documentation of the application. The information presented in this document will be used for quoting purposes. Therefore, we recommend you provide as much detail as possible so that the 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.

MCB Model Application Tool



Application Description

Describe application including environment of operation:

Radio Frequency Operation Options

Note: Range estimations above 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.



The **SmaRT Wireless** mini console box (MCB) is available in multiple configurations that are derived from four standard physical layouts. Minor adjustments to the layouts can be accommodated. Major layout requests will be quoted based on the supporting business case.

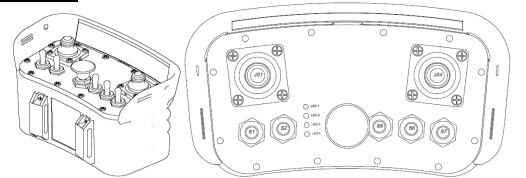
Standard Layout Choices

<u>4 Jo</u>	<u>ysticks</u>	2 Joysticks – 1	2 Joysticks - 2
MCB Option	IS		
	Variable potentiometer	option	
	Tether back-up option Supports loss of RF cor	mmunication and loss of batte	ry power
	Display option		
Describe desi	red display usage:		



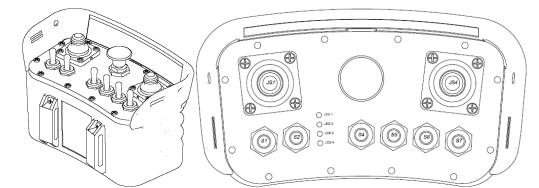
Mini-Console Box Design

MCB-XH02JS-1



	SWITCH TYPE	CUSTOM LOGIC
*S1+		
*S1–		
S2+		
S2–		
S3		LED
S4	M-	STOP
S5+		
S5–		
S6+		
S6–		
S7+		
S7–		
JS1Y+		
JS1Y-		
JS1X+		
JS1X-		
JS4Y+		
JS4Y-		
JS4X+		
JS4X-		

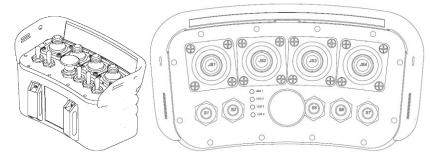




	SWITCH TYPE	CUSTOM LOGIC
*S1+		
*S1–		
S2+		
S2–		
S3		LED
S4+		
S4–		
S5+		
S5–		
S6+		
S6–		
*S7+		
*S7–		
JS1Y+		
JS1Y-		
JS1X+		
JS1X–		
JS2–JS3		M-STOP
JS4Y+		
JS4Y-		
JS4X+		
JS4X–		



MCB-XH04JS



	SWITCH TYPE	CUSTOM LOGIC
*S1+		
*S1–		
S2+		
S2–		
S3		LED
S4	Μ	-STOP
S5+		
S5–		
S6+		
S6–		
S7+		
S7–		
JS1Y+		
JS1Y-		
JS1X+		
JS1X–		
JS2Y+		
JS2Y–		
JS2X+		
JS2X–		
JS3Y+		
JS3Y–		
JS3X+		
JS3X-		
JS4Y+		
JS4Y-		
JS4X+		
JS4X-		



MCB Software Feature					
Handheld Inactivity Timeout					
4 Minutes 10 Minutes Other Minutes None					
MCB Accessories					
Tether cable 50-foot length with machine mount bulkhead connector/dust cap					
Tether cable 24-foot with flying leads for terminal strip mounting					
Tether cable 24-foot with flying leads for terminal strip mounting					
Tether cable 24-foot with flying leads for terminal strip mounting Graphic Label					
Graphic Label					
Graphic Label					
Graphic Label Company Logo					
Graphic Label					
Graphic Label Company Logo					
Graphic Label Company Logo					
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Graphic Label Company Logo					
Graphic Label Company Logo					



Base Unit Antenna Options

Internal Antenna (Typically used when mounting base unit 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

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

	Delevisenteste	\square	Newseller		Our and it is
J	Relay contacts	\Box	Normally	open contact	Quantity:
		\bigcup	Normally	closed contact	Quantity:
	Solid State		High Side	Output	Quantity:
			Low Side	Output	Quantity:
_	Contact Rating				
	Resistive: 5A at 250 V	'AC or 30) VDC		
	Resistive: 10A at 250	VAC or 3	30 VDC		
	Inductive: 2A at 250 V	AC or 30	VDC (prop	osal will include snubbei	r circuits on contac
)esc	ribe output interface:				
	PWM (Pulse Width Mo	odulation) output	PWM Frequency: _	Hz
				Coil Resistance:	Ω
				Coil Resistance: Quantity:	
	Current control				
	Current control			Quantity:	mA
	Current control			Quantity:	mA mA
	Current control Analog output			Quantity: Initial Current: Final current:	mA mA
				Quantity: Initial Current: Final current: Quantity:	mA mA toVDC
				Quantity: Initial Current: Final current: Quantity: Variable voltage: Ratiometric Variable	mA mA toVDC
				Quantity: Initial Current: Final current: Quantity: Variable voltage: Ratiometric Variable	mA mA toVDC e Voltage: toVDC
				Quantity: Initial Current: Final current: Quantity: Variable voltage: Ratiometric Variable	mA mA toVDC e Voltage: toVDC

MCB Model Application Tool



Base Unit Output Requirements (Continued)

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

Base Unit Data Communication Requirements

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

CAN Bus CAN	Open
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None

Base Unit Output List

	Function Name	? utput 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:	toVDC
Digital	High side voltage:
	Low side (contact to power supply ground)
None	

Base Unit Input List

	Function Name	Nnput 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	e desired display usage:				
Base U	nit Software Requests				
Link Def	inition				
	Safety LINK Enabled (where all outputs will clear upon loss of link)				
	Safety LINK Disabled (where latched commands will remain latched on loss of link, but all momentary commands that are active deactivate)				
Compor	ent 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)				



Standard Base Unit Wiring Offering

Base Unit Mounting

Base Unit Mounting:

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Outside Environment

Inside Environment

Inside other enclosure

Customer Approval



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