Pistol Grip Application Tool

M010.0.6_SmaRT_PG_Config

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

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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 we recommended 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)

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 upon good “conditions” and “line of sight” between devices.

Pistol Grip Design

The **SmaRT Wireless** pistol grip (PG) 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 upon the supporting business case.

Standard Layout Choices

◯ **Seven toggle** ◯ **Single Joystick** ◯ **Two Joystick** ◯ **Six toggle/display**

Pistol Grip Options

☐ Variable potentiometer option (two max: one pot sacrifices one toggle switch position)

☐ Tether back-up option

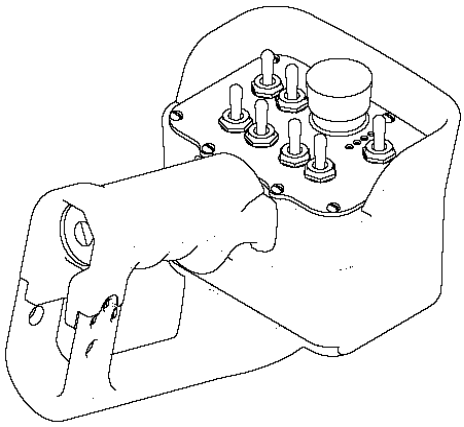
Supports loss of RF communication and loss of battery power

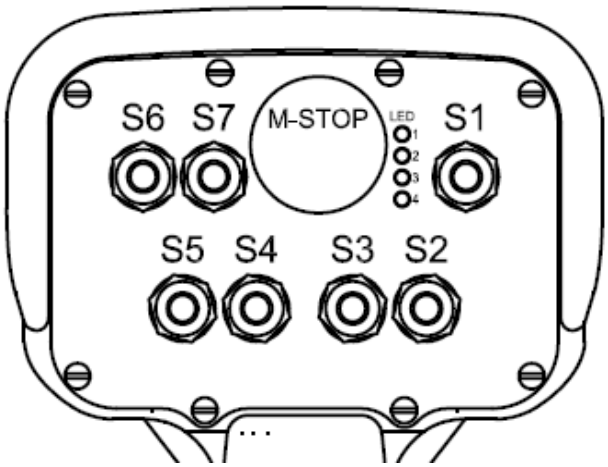
☐ Display option

Describe desired display usage:

Pistol Grip Design

PG-XH14



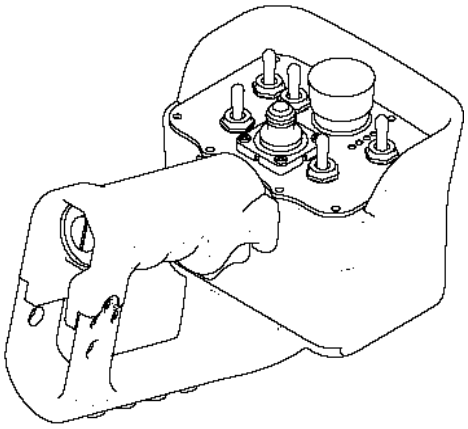


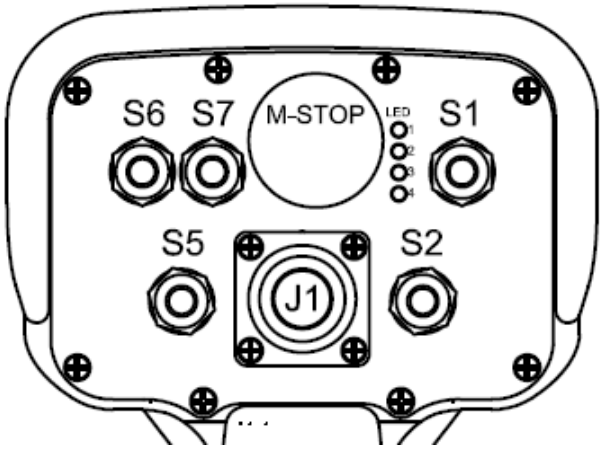
FUNCTION:		SWITCH TYPE	CUSTOM LOGIC
TRIGGER			
*S1+		N/A	
*S1–		N/A	
S2+		N/A	
S2–		N/A	
S3+		N/A	
S3–		N/A	
S4+		N/A	
S4–		N/A	
S5+		N/A	
S5–		N/A	
S6+		N/A	
S6–		N/A	
*S7+		N/A	
*S7–		N/A	

* Switch required

Describe any special requirements:

PG-XH10JS



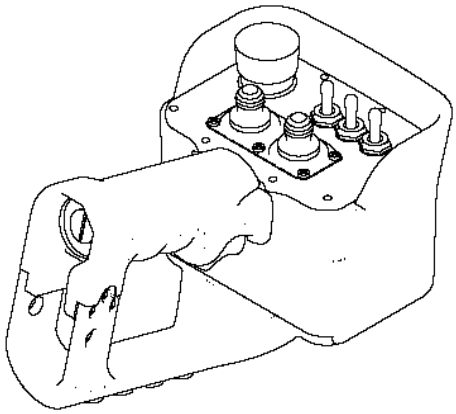


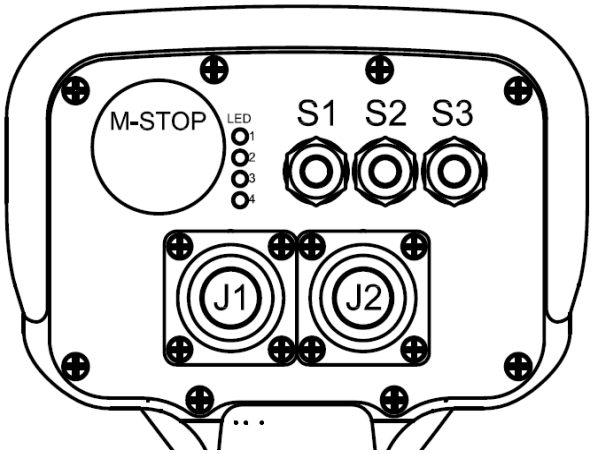
FUNCTION:		SWITCH TYPE	CUSTOM LOGIC
TRIGGER			
*S1+		N/A	
*S1–		N/A	
S2+		N/A	
S2–		N/A	
JS1Y+		N/A	
JS1Y–		N/A	
JS1X+		N/A	
JS1X–		N/A	
S5+		N/A	
S5–		N/A	
S6+		N/A	
S6–		N/A	
*S7+		N/A	
*S7–		N/A	

* Switch required

Describe any special requirements:

PG-XH12JS



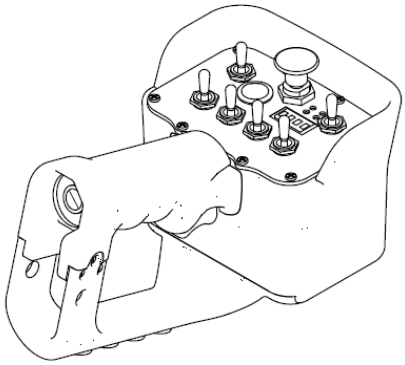


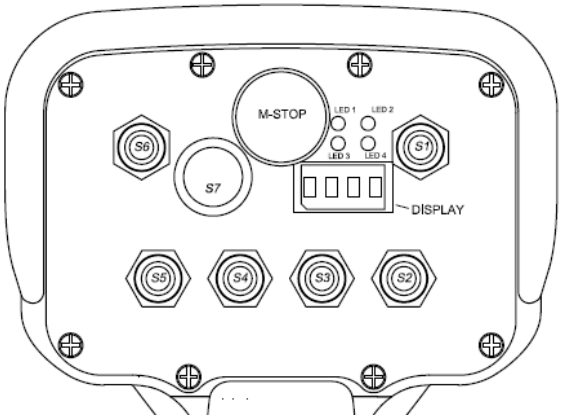
FUNCTION:		SWITCH TYPE	CUSTOM LOGIC
TRIGGER			
*S1+		N/A	
*S1–		N/A	
S2+		N/A	
S2–		N/A	
S3+		N/A	
S3–		N/A	
JS1Y+		N/A	
JS1Y–		N/A	
JS1X+		N/A	
JS1X–		N/A	
JS2Y+		N/A	
JS2Y–		N/A	
JS2X+		N/A	
JS2X–		N/A	

* Switch required

Describe any special requirements:

PG-XH12/DISPLAY





FUNCTION:		SWITCH TYPE	CUSTOM LOGIC
TRIGGER			
*S1+		N/A	
*S1–		N/A	
S2+		N/A	
S2–		N/A	
S3+		N/A	
S3–		N/A	
S4+		N/A	
S4–		N/A	
S5+		N/A	
S5–		N/A	
S6+		N/A	
S6–		N/A	
S7		PB	

* Switch required

Describe any special requirements:

** Please contact salesman about LED display capabilities**

Pistol Grip Software Feature

Handheld Inactivity Timeout

- ◯ 4 Minutes
- ◯ 10 Minutes
- ◯ Other _____ Minutes
- ◯ None

Pistol Grip Accessories

- ◯ Tether cable 50 foot length with machine mount bulkhead connector/dust cap
- ◯ Tether cable 24 foot with flying leads for terminal strip mounting

Graphic Label

Company Logo	Cervis, Inc./SmaRT Logos (default)

Label Notes:

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: ____

☐ 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:

☐ PWM (Pulse Width Modulated) 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

◯ 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

◯ 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

◯ **Maintained LINK Enabled** (where all outputs will clear upon loss of link)

◯ **Maintained 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) - 12 conductors in each harness cable

Base Unit Mounting

- ○ Outside Environment
- ○ Inside Environment
- ○ Inside other enclosure

Metallic Enclosure

Approval

Required (Send to Customer for Approval)

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