PG-xH14 (PG-9H14 and PG-2H14 Pistol Grip Remotes)

Features

- ✓ PG-9H14 900 MHz@10 mW/ PG-2H14 2.4 GHz@100 mW/ RF Power License-Free Operation
- ✓ Direct Sequence Spread Spectrum Technology
- ✓ Comfortable Weatherproof Pistol Grip Design
- ✓ Powered by Four "AA" Cell Batteries
- ✓ Dedicated M-Stop Button
- ✓ Four Status/Diagnostic LEDs
- ✓ Glove-Accessible Switches
- ✓ Four Handle-Embedded Magnets
- ✓ Umbilical Connection Option
- ✓ J1939 CAN Capable

The SmaRT™ PG-xH14 pistol grip remotes are designed for traditional and non-traditional mobile applications. Capable of activating digital and trigger-control-pulse-width-modulated proportional outputs of SmaRT base units, the PG-xH14 provides single-handed operation in a comfortable layout. Using direct sequence spread spectrum (DSSS) wireless technology at 900 MHz or 2.4 GHz, the SmaRT pistol grip remote provides a robust link with SmaRT base units in congested radio environments. The SmaRT PG-xH14 features seamless association to a SmaRT base unit without the need to open the case of either unit. The umbilical option allows a PG-xH14 remote to directly connect to base units.

The rugged weatherproof Pistol Grip enclosure allows the unit to operate worry free in harsh weather conditions. Four handle-embedded magnets allow the remote to be securely attached to ferrous surfaces to help prevent misplacing the unit while not in use.

Specifications

Power

V_{in}	+3.0 VDC nominal
Batteries	Four "AA" Cell
Battery Life	≅175 to 200 hours
Low V Power Down	1.6 VDC
Auto-Power Down	10 minutes of inactivity (default)

Radio

Frequency	906–924 MHz; 2405–2480 MHz
RF Power	10 mW @ 900 MHz; 100 mW @ 2 GHz
License	License-Free
Modulation	DSSS
Antenna	Internal

Environment

Operating Temp	–20° C to 55° C (–4° F to 131° F)
Storage Temp	–40° C to 55° C (–40° F to 131° F)
Humidity	0 to 100%

Control Functions

Switches	7 switches, up to 14 Functions; 1 proportional trigger controller 1 oversized stop

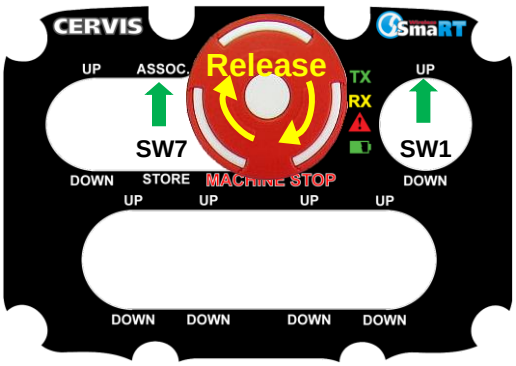
Indicators (4 LEDs)

TX (Green)	
Blinking	Transmitting messages
Steady	Switch active
RX (Amber)	
Blinking	Receiving messages
Steady	Output of interest active
8 Blinks	One for each channel scan before association is made (1.6 sec. total)
Error (Red)	
Steady	Error detected; switch conflict
Flashing	Switch conflict, switch held by user when turned on
Battery (Amber)	
Flashing	Low battery indication

Enclosure

Dimensions	mm: 230.59 x 133.93 x 146.92 inch: 9.08 x 5.27 x 5.78
Weight	1.22 kg (2.7 lbs)
Durability	High Impact Polymer

Associate Mode



All Cervis systems are associated (communications are pre-set) at the factory. However, a SmaRT PG-xH14 can be associated to a SmaRT base unit in the field when desired.

To associate there must be a clear line-of-sight between the handheld and the base unit, and both units must be OFF (powered down). Do not operate the trigger while associating.

1. Stand near to the base unit in a clear direct line-of-sight with the handheld while both handheld and base unit are **OFF**.
2. Release the MACHINE STOP**,** move any momentary toggle up or down and then allow it to return to its neutral position. This activates the handheld making it ready for use.
3. Hold SW7 in the ASSOCIATE (UP) position.
4. Hold SW1 in the UP position.

All four LEDs will flash once, TX (transmit) lights steady,and RX, ER, and Battery go out.

5. Continue to hold SW1 and SW7.
6. Power Up the base unit.
7. Release SW7 and SW1.
8. Handheld and base unit association is complete when TX and RX continue to blink (fllicker) while the handheld and base unit are active (on) indicating the communication link is established.

PG-xH14 Family

All PG-xH14 handheld remotes use four “AA” cell batteries for power, have one trigger (proportional control), seven 3-postion toggle switches, a dedicated M-Stop, and four handle-embedded magnets. The following table defines various features applicable to the models listed.

Model Name	Freq.	RF Power	Umbilical	Display
PG-9H14	900 MHz	10 mW	No	No
PG-9H14-UMB	900 MHz	10 mW	Yes	No
PG-9H14-DIS	900 MHz	10 mW	No	Yes
PG-9H14-DIS-UMB	900 MHz	10 mW	Yes	Yes
PG-2H14	2.4 GHz	100 mW	No	No
PG-2H14-UMB	2.4 GHz	100 mW	Yes	No
PG-2H14-DIS	2.4 GHz	100 mW	No	Yes
PG-2H14-DIS-UMB	2.4 GHz	100 mW	Yes	Yes
Custom Configurations by Request				

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