



**Wireless**  
**SmaRT**

## 18 Button Remote **Handhelds**








### **Applications**

- Mobile Equipment
- Industrial Equipment
- Cement Mixers
- Process Controls
- Gates/Doors
- Irrigation Equipment
- Vacuum Trucks
- Hydraulic Trailers
- Towing Equipment
- Agriculture Equipment



**SmaRT 18**  
*Handheld*

### **Engineered SmaRT by Design**

- 18 Button Control 
- 900MHz & 2.4GHz DSSS  
(Direct Sequence Spread Spectrum) 
- Programmable Feedback LCD/LEDs 
- Rugged High Impact  
Polymer/Polycarbonate 
- Weatherproof Design 
- Stainless Steel Front 
- Alkaline Batteries 

The SmaRT 18 Handheld Remote features a flexible programmable control with custom configuration of up to sixteen outputs. It is capable of communicating with a wide variety of SmaRT base units.

The two line display provides instant verification of control activity and machine feedback. The adjustable backlight and contrast allow control of power consumption to conserve battery life.

Using Direct Sequence Spread Spectrum (DSSS) wireless technology at 900MHz or 2.4GHz, the SmaRT Handheld 918 provides a robust link with a SmaRT base unit in congested radio environments. The Remote features seamless association to the base unit without the need to open the the handheld or base unit enclosures.

The unit's enclosure is constructed of rugged high impact polymer with a clear polycarbonate lens over the display. A stainless steel faceplate is securely attached to provide additional ruggedness.



# System Specifications

|                |                              |
|----------------|------------------------------|
| Frequency      | 906 - 924 MHz or 2.4GHz DSSS |
| RF Power       | 1mW (2mW for 2.4 GHz option) |
| Weight         | 430.9 gr. (15.2 Oz.)         |
| Dimensions     | 9 1/8" x 3 1/8" x 1 1/4"     |
| Batteries      | (4) AA                       |
| Operating Temp | -20°C to 55°C                |
| Antenna        | Internal/External Option     |
| Modulation     | DSSS                         |
| Indicators     | Transmit, Receive and link   |

- Spread Spectrum Technology
- Rugged High-Impact PolyCarbonate Enclosure
- Rubber Bumper
- Compact Weatherproof Design
- Multi LED Indicators



# Wireless SMART

## Solid State Base Unit

|                          |                 |
|--------------------------|-----------------|
| Available Voltage Ranges | 7 - 32 Vdc      |
| Number of I/Os           | 0 6             |
|                          | 0 8             |
|                          | 0 16            |
|                          | 1 AI2 - 4 to 20 |
| CAN Compatible           | 1 AV2 - 0 - 10  |

SMART Solid State Base Unit features up to sixteen high-side switching fault monitored FET outputs or switch-to-ground digital inputs. The versatile, programmable digital inputs can be customized by Cervis to fit specific applications. Base Units accept a broad range of input voltage with operating voltages ranging from 7 to 32 Vdc. The rugged weather proof enclosure allows the unit to operate worry free in harsh weather conditions.



### Display Features:

- Adjustable Backlight
- 2 Lines, 20 characters
- Good low temperature visibility



Custom Labeling Options

## Standard Handheld Configurations

Handheld controls can be programmed as **OO** or **DO**.

**OO** - Dedicated ON and Dedicated OFF button where the handheld utilizes independent ON and OFF buttons and the handheld must be turned ON prior to any function buttons allowing output activation. Typically, a programmable inactivity timer is enabled to conserve battery life while in this mode.

**DO** - Dedicated ON/OFF button where the handheld must be turned on by the ON/OFF button prior to any function buttons allowing output activation. Typically, a programmable inactivity timer is enabled to conserve battery life while in this mode.



## Relay Contact Base Unit

|                          |  |
|--------------------------|--|
| Available Voltage Ranges | 9 - 18 Vdc                               |
|                          | 18 - 32 Vdc                              |
|                          | 24 - 235 Vac                             |
| Number of outputs        | 6 form C                                 |
|                          | NO/NC Relay                              |
| Rating                   | 10A Max per Channel<br>Power Factor: 0.6 |

SMART Relay Contact Base Units feature six form C relay outputs, each 10A max with independent commons and transient power suppression. All connections are made via dual 12-wire cables using uniquely keyed connectors to guard against cross connection. The rugged weatherproof enclosure allows the unit to operate worry free in harsh weather conditions.

