



# Cervis Product Specifications Datasheet

## BU-xH16R Series Receivers



The Cervis **BU-xH16R** features sixteen Form A relay outputs, divided into two banks of eight each with independent common feeds.

The BU-xH16R is available with multiple input power configurations, high-voltage AC/DC and also low-voltage AC/DC. All connections are made with 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.

SmaRT base units feature seamless association with a SmaRT handheld unit without the need to open the case. Using Channel-Hopping Direct Sequence Spread Spectrum (DSSS) wireless technology at 900 MHz or 2.4 GHz, the base unit provides a robust link with a SmaRT handheld remote in congested radio environments.



- 900MHz or 2.4GHz DSSS Technology
- Diagnostic LED outputs
- Sixteen Form A Relay Outputs
- Dual connectors for ease of wiring
- Compact Weatherproof Design
- Optional External Antenna
- Optional J1939 CAN interface

### POWER

**Operating  $V_{in}$ :** 100-240 VAC @ 47 - 440 Hz  
 120-340 VDC  
 7-32 VDC  
 7-28 VAC  
**Operating Power:** 5 W maximum

### RADIO

**Frequency:** 906-924 MHz @ 10mW  
 2405-2480 MHz @ 100mW  
**License:** License-Free  
**Modulation:** Direct Sequence Spread Spectrum (DSSS)  
**Antenna:** Internal or External

### ENVIRONMENT

**Operating Temperature:** -20°C to 60°C (-13°F to 140°F)  
**Storage Temperature:** -40°C to 85°C (-40°F to 185°F)  
**Humidity:** 0 to 100%  
**Vibration/Shock:** IEC60068-2-6  
 10 Hz to 150 Hz @ 1.0 g peak acceleration  
 10.0 g peak shock acceleration

### INPUTS/OUTPUTS

**Relays:** Sixteen Form A (SPST)  
**Current:** Resistive: 5 A at 250 VAC or 30 VDC  
 Inductive: 2 A at 250 VAC or 30 VDC  
 7.5 A max per bank with CAN  
 15 A max per bank without CAN  
**Bank A:** Relays K1 - K8  
**Bank B:** Relays K9 - K16  
**CAN Option:** SAE J1939

### INDICATOR LEDs

- |   |                      |
|---|----------------------|
| <b>1 (CAN TX/RX):</b>                   | <b>4 (RF TX/RX):</b> |
| ● TX only active                        | ● TX only active     |
| ● RX only active                        | ● RX only active     |
| <b>2 (OUT):</b>                         | <b>5 (POWER):</b>    |
| ● Output active                         | ● OK                 |
| <b>3 (HEALTH):</b>                      | ● Blinking           |
| ● Blink once/second (when health is OK) | ● Red/Green: Fault   |

### ENCLOSURE

**Dimensions:** Millimeters: 133 x 118 x 36  
 Inches: 5.24 x 4.65 x 1.42  
**Total Weight:** 0.24 kg (0.5 lbs)  
**Durability:** High Impact Polymer Case  
**Mounting:** 7.4 mm (0.29 inches) diameter holes  
 102 mm (4 inches) center-to-center



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