



Cervis Product Specifications Datasheet

BU-xH16AF Series Receivers



The versatile **BU-9H16AF** and **BU-2H16AF** base units feature eight FET (field effect transistor) high-side switching outputs or switch-to-ground digital inputs, eight 0–12 VDC or 4–20 mA analog inputs/ outputs (I/O), and control area network (CAN) Bus control capability. This unit is perfectly suited for use with ratio metric valve controls, giving the operator extremely precise control.

Cervis, Inc. can customize the versatile, programmable digital and analog outputs/inputs to fit specific user applications. The BU-9H16AF and BU-2H16AF accept a broad range of input power, with operating voltages ranging from +10 VDC to +28 VDC. The rugged weatherproof enclosure allows the units to operate worry free in harsh weather conditions. Two 12-wire color-keyed weatherproof connecting cables connect the controlled devices.



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

- 900MHz or 2.4GHz DSSS Technology
- Diagnostic LED outputs
- Commands up to eight Radiometric Valves (0-10 VDC)
- Eight Analog Inputs/Output (0–12 VDC or 4–20 mA)
- Eight FET Inputs/Outputs
- Dual connectors for ease of wiring
- CAN Bus Capable
- Compact Weatherproof Design
- Translucent Case (reduces hole drilling)

POWER

Operating V_{in} : +10 to +28 VDC
Safe Power: +6.5 to +32 VDC

RADIO

Frequency: BU-2H16AF: 2405-2480 MHz @ 100mW
BU-9H16AF: 906-924 MHz @ 10mW

License: License-Free

Modulation: Direct Sequence Spread Spectrum (DSSS)

Antenna: Internal or External (RP-TNC)

ENVIRONMENT

Operating Temperature: -20°C to 55°C (-4°F to 131°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

Eight Digital: FET –Open Drain;

Factory configurable Input/Output

Eight Analog: 0-12 V or 4-20 mA;

Factory configurable Input/Output

Current: 2 A Per channel, 15 A Maximum @ 55° C

Umbilical (optional): CAN Bus SAE J1939

INDICATOR LEDs (all red)

Unnamed(V_{in}): OK when inactive;

Polarity reversed when active

+V1 – +V3:** Voltages OK when lit steady

1 (Health): OK when blinking once/second

2 (RF TX): Blinking when actively transmitting

3 (RF RX): Blinking when actively receiving

4 (CAN TX): Blinking when actively transmitting

5 (CAN RX): Blinking when actively receiving

6 (OUT): Active output when blinking once per second

7 (IN): Active input when blinking once per second

8 (ERR): ERROR when lit steady

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



724-741-9000 cervisinc.com info@cervis.net