

WIC-2400

Wireless Transceiver



Magnetek's WIC-2400 transceiver is a 2.4GHz wireless data link for connecting CAN-based devices without the need for interconnecting wires. The WIC-2400 transmits and receives (transceives) all CAN messages present on the CAN-BUS just as if they were connected with wires, providing dependable control and fast performance. The modules can be used with most existing systems without the need for programming changes. A basic system includes one server module, a client module and all necessary hardware. Custom configurations are available to meet your specific requirements.

CAN-BUS CONTROL MADE SIMPLE IN CHALLENGING PLACES

- Supports any type of Bosch 2.0b CAN network including J1939, CAN Open, Device Net, Parker ICP, and more with little or no programming
- More efficient and dependable than cables over long runs and moving joints
- Ideal for mobile applications that require access to stationary based CAN-BUS networks
- Increases safety for machines that require isolation from high voltages and highly dependable over traditional fiber optic cables
- Sends data across areas where cables can be damaged or where running cable is not practical

FLEXIBLE AND FAST PERFORMANCE

- Fast response time— messages are transmitted and received in less than 20 milliseconds
- Wide operating voltage range of 12-48VDC
- Can be used in point-to-point or point-to-multipoint applications
- Communicates over long ranges, 1,500 to 2,500 feet
- Reduces field service and maintenance costs
- Features bright LED lights for diagnostics and system status
- Rated NEMA 4 (IP67), sealed to withstand harsh mobile and industrial environments
- Quick plug Deutsch connector makes integrating into the machine easy
- Reliable in crowded RF bands with Frequency Hopping Spread Spectrum (FHSS) technology
- Custom configurations available

TYPICAL APPLICATIONS

- Making CAN-BUS control modules mobile
- Communication to mobile machinery
- Isolating controls for utility truck safety
- Providing data feedback from excavator self-powered attachments
- Transmitting data feedback from sensors to CAN gauges



MAGNETEK WIRELESS RADIO REMOTE CONTROLS ARE MADE IN THE USA

PERFECT FOR USE IN A VARIETY OF APPLICATIONS

The WIC-2400 can be customized to meet almost any application. Magnetek provides innovative, cost-effective, custom-engineered wireless communication products, complete with hydraulic interface controls. These are designed to your specifications, reducing internal engineering and manufacturing costs, improving time to market, and enhancing equipment performance. We offer complete plug-and-play hydraulic control packages designed specifically for your machine, manufactured and tested on our panel assembly line.

Packaged system options include:

- I/O modules supporting various types of machine sensors and valves
- Graphic display modules available
- Custom programming as the application requires
- NEMA 4, stainless steel, and explosion proof enclosures available
- Pre-wired cables with valve connectors of choice available

SIMPLE SET-UP

3 easy installation steps for the standard WIC-2400

1. Cut CAN cable
2. Connect CAN cable ends to the WIC-2400
3. Power the WIC-2400 with 12–48VDC

No program setup is required, it's that easy!



WIC 2400 TRANSCEIVER SPECIFICATIONS

Size (inches): 5.7 L x 4.6W x 1.4D

Weight: Less than 1 lb

Frequency Range: 2.4Ghz spread spectrum FHSS

RF Type: Microprocessor controlled PLL synthesized transceiver

RF Power: 50mW standard, no license required meets FCC Part 15 requirements

Typical Range: 1,500 feet

Temperature Range: -20° to 70°C (-18° to 160°F)

Security Codes: Standard 1 million+, field selectable or programmed at factory

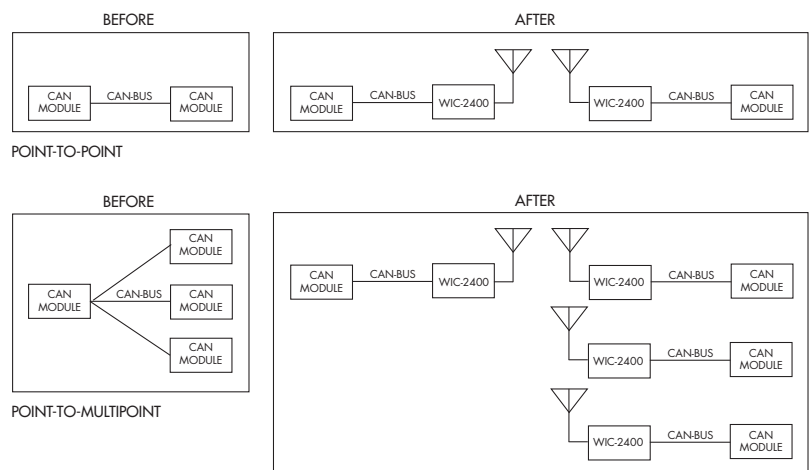
Baud Rate: 500K baud

Enclosure Rating: NEMA 4, IP67 rating

Enclosure Material: Molded nylon 6/6

Wiring: 16–20 gauge wire, with weatherproof connector

Power: 12–48VDC, 1 Watt



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