Technical Data

R260 Wireless Mobile Control Module

Programmable 20 Function Trusted Wireless™ CAN Controller

Description

The OMNEX Trusted Wireless™ R260 controller is a robust, license-free, wireless I/O module and valve driver designed for smooth operation and precision control of industrial machinery in global applications. Designed with the latest in mobile control network technology, the R260 offers industry-leading features including CAN-Bus Network Integration, IEC 61131-3 compliant PLC programmability and OMNEX industrially hardened Trusted Wireless™ FHSS radio technology for robust and secure Two-Way Wireless Communication. The R260 also features 20 I/O, dual CAN ports and an impact resistant enclosure to ensure dependable operation and precise control.

Features

- 2.4 GHz Trusted Wireless™ Radio Transceiver with FHSS technology has been proven to clearly outperform the competition in noisy, interferenceprone environments.
- IEC 61131-3 compliance ensures that internationally defined PLC programming language standards are adhered to.
- Dual SAE J1929, CANopen, or Proprietary CAN interfaces are designed for seamless network integration.
- 20 I/O (with up to 4 proportional outputs) provide smooth and precise control with highly flexible configuration options.
- CAN interface ensures suitability for the multiplexed environment.
- Two-way radio technology allows machine operation data to be fed back to an operator.
- Rugged IP67 rated enclosure ensure maximum protection against environmental exposure.
- Modular, standard packaging for easy system integration.
- Custom programming options for flexible, precise, and reliable control across a diverse application base.
- Compatibility with existing OMNEX T110C, T150, T151, and T300 remotes preserves equipment investment.
- Simple, tool-free pairing with transmitters eliminates risk of service damage to the enclosure.
- 500 m (1640 ft) line of sight operational range with OMNEX remotes leads the industry for performance.

Applications

- Concrete Boom Pumps
- Skid Steer Track Loaders
- Track Type Machines
- Tunnel Boring Equipment
- Truck Mounted Cranes
- Vacuum Trucks
- Concrete Mixer Trucks
- Load/Haul/Dump
- Chippers and Augers
- Auto Recovery Vehicles
- Rotator Trucks
- Off Road Machines

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Specifications

Specification	Description
General	
Size	4" W x 5.13" H x 1" D (101.6 mm W x 130.3 mm H x 25.4 mm D)
Weight	0.65 lbs (0.30 kg)
Operating Temperature	-40°C to +65°C (-40°F to +149°F)
Storage Temperature	-50°C to +85°C (-58°F to +185°F)
Ingress Protection	IP67
Certification	FCC, IC, SAE J1113-11 Load Dump, others on request.
I/O	
Network Communication	CAN-Bus (2 x SAE-J1939 or CANopen)
Supply Voltage	9 – 32 VDC. Reverse polarity protected. Open ground protection. 5 VDC Min Cold-Cranking
Current Handling	Total Combined: 20 A
Digital Outputs	20 outputs maximum (sourcing)
Digital Inputs	20 inputs maximum
Proportional Outputs	Supported types include current regulated PWM, proportional voltage, 4-20 mA, PWM. Other types on request.
Proportional Inputs	Supported input types include 4-20 mA, voltage (0-32 VDC), 4-20 mA. Other types on request.
Wireless	
Frequency	2.4 GHz FHSS
Operating Range	500 m (1640 ft) line of sight
Compatibility	OMNEX Remotes: T110C, T150, T151, T300, and Future Two-Way Remotes
Programmability	
	IEC 61131-3 Compliant PLC development environment
Other Features	
	Field upgradable (via USB port)
	Real-time diagnostic monitoring
	Critical event logging
	Future proof application development
	Simplified remote-pairing process

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For information on Eaton's wireless business, please visit Eaton.com/wireless

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