RECEIVER

RX-CAN-HL

The **RX-CAN-HL** is a highly configurable radio receiver with 2 independent CAN interfaces designed to fit in the Hetronic HS-1 housing. It is intended to extend the possibilities provided by previous generation CAN receivers.

The **RX-CAN-HL** includes one onboard radio interface, one external radio interface, one RS232 interface (for Cable Control and configuration), one USB device interface (for configuration and software updates), two Main Contact output relays, two change-over output relays, four digital outputs, four analog inputs and two CAN interfaces.

The **RX-CAN-HL** supports half-duplex feedback using the onboard radio interface and full-duplex feedback using the external radio interface for feedback and

the onboard radio interface for control. LCD (Graphic or Text), 16 LED (LFB), and 4 LED feedbacks are supported. Feedback is also supported over Cable Control.

The **RX-CAN-HL** supports configuration of up to four transmit and four receive messages per CAN interface. Each message may be configured for ID, timing, and length. The data source for each bit of a transmit message may be configured for various digital data sources. Each byte of a transmit CAN message may also be configured for various analog data sources. Receive messages may be used for specific functions, such as feedback, or may be used as digital or analog sources for general use. Six relays can be added to **RX-CAN-HL** using the REL-6X expansion board.

RX-CAN-HL M25
Front side

RX-CAN-HL 30P
Front side

ABOUT HETRONIC

Located in Weesp Netherlands

10,000+ clients worldwide

Support from 50+ global offices

500,000+ radio remote controls built

Wide range of transmitters and receivers

Tailor-made radio remote controls

Repair in-house and on-site

Fast delivery times

MECHANICAL FEATURES

Housing
HS1, Impact Resistant
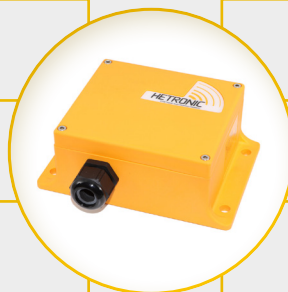Polymer Composite

Weight
1.9 kg

Temperature
Operating: -20°C to +70°C
Storage: -40°C to +85°C

Humidity range
0 to 97% maximum
non-condensing

Dimensions
Length: 166 mm
Width: 114 mm
Height: 63 mm (85 mm including vibration mounts)

IP rating
Min. IP65 (Exceeds Nema 12/13)

Antenna
External via TNC connector

Output wiring/connector
Output wiring via 30p connector,
7p round connector or via M25 Gable Gland

ELECTRICAL FEATURES

Power supply	12/24VDC (±50%, 1.5A hold fuse)
Stop Function	2 MC Potential free Safety relay outputs (2 or 4 wires) (250V/8A max)
Outputs	• 2 Programmable NO/NC Potential free changeover relay outputs at 12/24VDC or 230VAC/8A • 2 CAN-Bus
Inputs	4 Analog inputs capable of 0-5V analog and 0-24VDC digital
Protocol	CANopen, CANopen Safety, J1939, Parker IQAN of Generic CAN
Software options	NO/NC, Latching, On-Delay, Off-Delay, Interlocking, Start-Interlock, AND/NAND/OR/NOR/XOR/XNOR Gates, Multi-Address, Master-Slave, Master-Master, Multiple Receiver system, Multiple Transmitter system, Enhanced Mode for Cyber-Security, Dual Control mode, Receiver Select mode
Safety	• 20-bit programmable address with up to 1 million combinations • Active and passive Stop function (EN62745) • Parity & Checksum • Safety Category 3 Compliant (STOP)
Performance Level	PLc (2-wire), PLe (4-wire)
Operating range	Typically 100 meter in industrial environment and 250 meter line of sight. Extended range on request.
Control RF Unit	Type CS synthesized with multiple frequencies
Output RF power	Standard 10 mW, customizable to country and customer requirements
Avaliable Frequencies	419, 429, 434, 447, 458, 469, 480, 869, 915, 1216 MHz and 2.4 GHz
Response time	< 100ms
Compliance	CE, FCC, IC, EMC, EMI, Radio Frequency (RED)

OPTIONAL FEATURES

Communication feedback	Half or full duplex feedback
Bus-module	N/A
Outputs	6 extra relays for having total 8 relays
Inputs	N/A
Machine protection	Tilt module
Accessories	Vibration mounts, magnet mount, receiver support HS1, antenna options, antenna extension, connection cable, built-in battery charger
Cable back-up	RS232 as option: custom lenght on request
Lockout-Tagout system	N/A
Tandem	Master-Master or Master-Slave with maximum 15 transmitters and 999 receivers

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