WE'RE NOT JUST CREATING REMOTE CONTROLS,
WE'RE CREATING A SAFER WORKPLACE

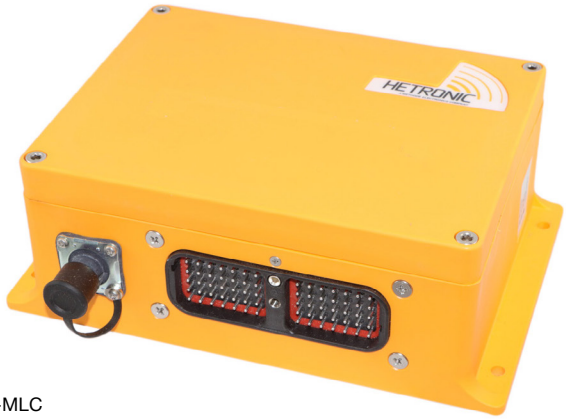
HETRONIC
INDUSTRIAL RADIO REMOTE CONTROLS

RECEIVER

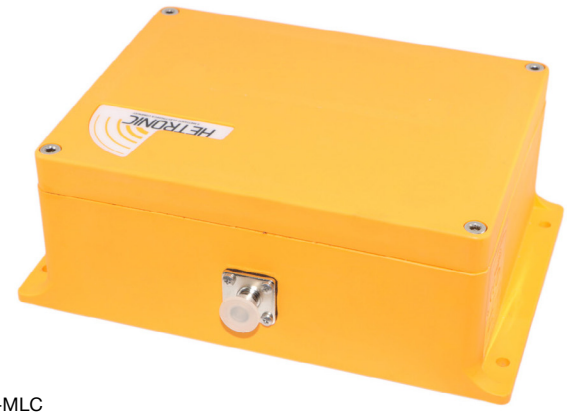
RX-MLC

The radio receiver **RX-MLC** (Machine-Logic Controller) is a receiver with proportional and digital outputs that contains a Programmable Logic Unit (PLC). The proportional outputs can be programmed as both PWM and Voltage Control and a combination of both is also possible.

The receiver has 1 Main Contact digital output (Stop) as standard and a double Safe Stop relay module with feedback monitoring can be optionally mounted. There are 12 digital outputs, 8 proportional outputs. The receiver also has a CAN-Bus port and a connection for a backup cable as standard. The **RX-MLC** is certified by TUV with SIL 3 according to EN 62061 and PLe CAT 3 according to EN 13849-1.



RX-MLC
Front side



RX-MLC
Back 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

RECEIVER

RX-MLC

MECHANICAL FEATURES

Housing
HS-2, Impact Resistant
Polymer Composite

Weight
1.7 kg
depending on configuration

Temperature
Operating: -25°C to +70°C
Storage: -40°C to +85°C

Humidity range
0 to 97% maximum
non-condensing

Dimensions
Length: 246 mm
Width: 160 mm (348 mm including 100 mm antenna and 70p connector)
Height: 93 mm (115 mm including vibration mounts)

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

Antenna
External via TNC connector

Output wiring/connector
Output wiring via 70p connector

ELECTRICAL FEATURES

Power supply	12/24VDC (8-36VDC max.)
Stop Function	Main Contact on/off Output 12/24VDC, 15A monitored
Outputs	• 8 independent Programmable Proportional PWM/Voltage Control outputs, also programmable as 16 on/off outputs • 6 Programmable on/off outputs at 12/24VDC, 8A max, sourced by MC output • 6 Programmable on/off outputs at 12/24VDC, 8A max, externally sourced, GND side switching capable • 2 CAN-Bus
Inputs	16 Programmable inputs: digital On/Off or analog 0-10V, 0-30V, 0-20mA or 4-20mA
Protocol	CANopen, SAE-J1939 or Parker IQAN
Software options	NO/NC, Latching, On-Delay, Off-Delay, Interlocking, Start-Interlock, AND/OR Gates, Multi-Address, Master-Slave, Master-Master, Multiple Receiver system, Multiple Transmitter system, Enhanced Mode for Cyber-Security, Timers, Warning Alarm, Auto Hold, Dump Valve, Quick Set, Ramp Up, Ramp Down, Virtual Outputs, RTC, Graphic User Interface (GUI) Logic
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	CAN as standard
Outputs	8 or 16 extra potential free relays, Safe Stop SNZ module with 2 cross-checking relays, 4 wires
Inputs	N/A
Machine protection	Tilt module, Data Log
Accessories	Vibration mounts, magnet mount, receiver support HS2, antenna options, antenna extension, connection cable, built-in battery charger
Cable back-up	RS232 as standard: custom lenght on request
Lockout-Tagout system	N/A
Tandem	Master-Master or Master-Slave with maximum 4 transmitters and 999 receivers

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