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

HETRONIC
INDUSTRIAL RADIO REMOTE CONTROLS

RX-PROFINET, MODBUS TCP, ETHERNET

To connect your PLC directly to a receiver via Industrial Ethernet with TCP / IP, Hetronic has developed the **PROFINET** bus interface receiver. This receiver is an IP address in a network and registers the data communication with your Hetronic transmitter. The digital and proportional signals from the transmitter are sent to the PLC via the receiver. And from the PLC you can control the feedback to the transmitter: LEDs, buzzer, vibration alarm and graphic LCD / TFT screens.

Our Hetronic solution for **PROFINET** comes standard in the robust HS-1 housing and is designed to meet Safety Category 3 (SIL3) PLd. The housing has a RJ-45 connector, external antenna TNC connection and one connector for 12/24 VDC supply, Safe Stop (2 relays, 2 or 4 wires) and 2 extra change-over relays. After order we send the GSD Markup Language as a GSDML file and you can go ahead with your Hetronic **PROFINET** system.
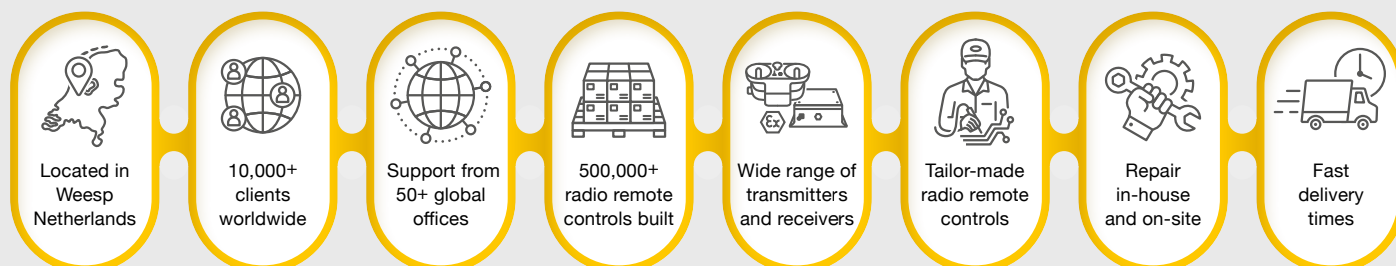

RX-PROFINET, MODBUS TCP, ETHERNET
Front side

RX-PROFINET, MODBUS TCP, ETHERNET
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

RX-PROFINET, MODBUS TCP, ETHERNET

MECHANICAL FEATURES

Housing
HS1, Impact Resistant Polymer Composite

Weight
2 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
Multipole connector and ProfiNET connector
(RJ-45 Cat 6A, HAN 3A)

ELECTRICAL FEATURES

Power supply	12/24VDC (±50%, 1.5A hold fuse)
Stop Function	2 MC Potential free Safety relay outputs (4 wires) (250V/8A max)
Outputs	• 2 Programmable NO/NC Potential free changeover relay outputs at 12/24VDC or 230VAC/8A • 1 PROFINET
Inputs	4 Analog inputs capable of 0-5V analog and 0-24VDC digital
Protocol	Standard PROFINET protocols [UDP, IP, ARP & ICMP], MODBUS TCP, ETHERNET, ETHERCAT, POWERLINK, SERCOS, VARAN
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
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, CEM, EMI, radiofréquence (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 standard: custom lenght on request
Lockout-Tagout system	N/A
Tandem	Master-Master or Master-Slave with maximum 15 transmitters and 999 receivers