10R AND 17R MACHINE CONTROL UNITS

10 AND 17 RELAY

HIGHLIGHTS

- A rugged and reliable MCU in an IP65 enclosure
- Hinged and lockable transparent lid
- Closed box configuration / diagnostics and data log download
- Safety motion relay option
- SD card for data logging
- RF diversity for ultra-reliable communication

FEATURES

- Next generation design meeting performance level-d (PL-d)
- 2.4GHz option available
- Diagnostic data collection
- Wide range power supply with AC and DC options
- Plug-in screw terminals for easy installation and maintenance
- Individual fuses for main and function relay groups
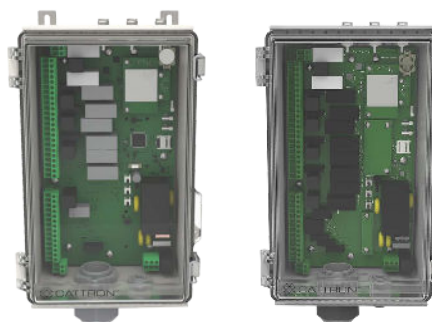- Separate output for alarm / start
- Two cable glands included

APPLICATIONS

Cattron's 10R and 17R units are used for the control of equipment and machinery in a wide variety of material handling, mobile equipment and industrial automation applications.

- Overhead Crane and Hoist Systems
- Conveyor Systems
- On-Highway Equipment
- Off-Highway Equipment
- Manufacturing
- Transportation and Warehousing

COMPLIANCE

- CE / RED
- EN/ISO 13849 Performance Level d (PL-d)
- ISO 13850
- UL/ISO 61010
- Global licensed and unlicensed frequency options

10R   17R

TECHNICAL DATA AND SPECIFICATIONS

ELECTRONIC DATA

Digital Circuitry	Dual Microprocessor Cat. 3 PL-d Architecture
System Address	24-Bit (65,535) unique addresses
Power	110-240 volts AC 33-48 volts AC 9-36 volts DC

RF

Frequency Range	License Exempt: 915MHz, 433MHz, 868MHz, 2.4GHz 450-470MHz Licensed
Operating Range	Sub-GHz - 150 meters typical (500 feet) 2.4GHz - 180 meters typical (600 feet)
Antenna	External Dual Sub-GHz and Single 2.4GHz
Telegram	Dynamic high efficiency telegram
Data Security	Bi-Directional Secure Black Channel Communication with 16-Bit CRC, 10-Bit Time Stamp and 8-Bit Encryption

ACCESSORIES

Antennas	Two sub-GHz and one 2.4GHz plus line kits
User Manual	Website download
Mounting Feet	Set of 4 mounting feet

MECHANICAL DATA

Weight	**10 Relay (10R)** 1.2 Kilograms (2.6lbs) **17 Relay (17R)** 1.3 Kilograms (2.9lbs)
Dimensions L x W x H	Enclosure size without connectors and glands 273 x 178 x 102mm (10.75 x 7 x 4 inches)
Housing	Grey fiberglass reinforced polycarbonate with a clear, hinged and lockable polycarbonate cover; IP65 suitable for outdoor use
Operating Temperature	-40º to 60º C (-40º to 140º F)
Vibration and Shock	Vibration, impact and shock tested

OPERATION AND INDICATION

Status	1 Status LED per relay 4 Bi-Color status LEDs 2 Power supply LEDs 1 Heartbeat LED
Function Relays	Dual Main Safety relays **10 Relay Unit** Alarm / Start Relay 6 Directional Relays (Optional Safety Relays) 4 Speed / Auxiliary Relays **17 Relay Unit** Alarm / Start Relay 8 Directional Relays (Optional Safety relays) 9 Speed / Auxiliary Relays