

Smart Technology. Delivered.





The MMCU4 receiver is a versatile configurable radio remote control receiver of the CattronControl TM family. With a wide range of input and output cards for control signals and feedback data the MMCU4 is a true multitalent for industrial crane, lifting equipment and machine control systems.

FEATURES

- Houses up to four I/O cards in any combination for digital, analog or industrial fieldbus interfaces
- Various interface options for input and feed-back data
- Output card with monitored safety relays available for higher safety category commands
- Rugged, industrial design enclosure with IP65 protection rating
- Highly configurable hardware and software for diverse applications
- High safety-category through redundant hardware and software architecture
- Approvals and operating frequencies for worldwide deployment
- Compatible with several transmitter types and models

ELECTRONIC DATA

TECHNICAL DATA AND SPECIFICATIONS

INTERFACES	
No of I/O cards	Up to 4
Output cards	
Standard relay	16 relays per card, 5 A/250 V AC
Safety relay	8 standard and 8 force-guided safety relays, 5 A/250 V AC
Opto-coupler	16 per card, up to 48 V/30 mA DC
Analog	4 channels per card 0-20 V DC, 0 - ±10 V DC or 0/4-20 mA
Input card (feedback)	
Base board	1 to 4 modules per card
Modules	DC digital: 4 per module, 12-36 V DC AC digital: 4 per module, 90-140 V AC Analog: 4 per module, 0-10 V DC or 0-20 mA DC
Fieldbus cards	Profibus-DP, DeviceNet, CANopen EtherNet/IP, Modbus-TCP, Profinet IO
STOP command	2 force-guided safety relays

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Digital circuitry	Dual-processor technology
System addresses	24 bits = 16 million addresses
Hamming distance	d=6 (Telegramm verification) 16 bit CRC
Supply voltage	42/48, 115/230 V AC, 12/24 V DC (nominal)
Power consumption	60 VA (nominal)
RF	
Frequency range/ output power (feedback)	335 MHz (< 1 mW ERP) 418 MHz (< 10 mW ERP) 433 MHz (< 10 mW ERP) 447 MHz (< 10 mW ERP) 869 MHz (< 5 mW ERP) 915 MHz (FCC part 15) other frequencies on request
Transmission speed	4.8 to 20 kbit/s
Transmitter output power	1-500 mW with various modules (within permitted limits)
Modulation	FM
RF channel spacing	12.5 kHz; 25 kHz and others
RF sensivity	>107 dBm (nominal)
Antenna	External
CONFIGURATIO	N N
TransKey™	System configuration,

address and RF channel setting

8 Multi-LED for status and diagnostics

Indication



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MECHANICAL DATA		
Weight	Maximum 6.2 kg (13.7 lbs)	
Dimensions (L x W x H)	320 x 255 x 185 mm (12.6" x 10.04" x 7.28")	
Housing material	Painted steel with hinged door Standard colour gray	
Housing protection rating	IP65	
Interface connection	2 cable glands (standard) Han32, Han64 and others on request	
Operating temperature	-20° to +60° C (-4° to 140° F)	
Storage temperature	-40° bis +70°C (-40° bis +158°F)	

Safety	EN ISO 13849-1 Category 3 PL d EN ISO 13849-2
Shock	EN 60068-2-27
Vibration	EN 60068-2-6
ACCESSORIES	
Antenna	External
Installation	4 Shock absorbers

STANDARDS