

We control the future

The fail-safe
radio remote control
solution for special
customer applications

Industrial remote control EASYcontrol

EC/40



CATTRON
*theimeg*TM

General information and technical data EASYcontrol EC/40

- the ideal remote control for custom applications
- modular design
- fast and easy service through service-friendly self-diagnostics
- precision in every detail
- available with synthesized radio transmission technology
- unsurpassed safety through:
 - multiple telegram security
 - hamming distance of $d \geq 6$
 - redundant, dual microprocessor system
 - master/slave technology
- redundant emergency stop circuitry
- available for tandem operations and proportional control
- feedback of data to the portable unit available
- multiple systems can be operated on one frequency
- rapid telegram access of approximately 60 ms
- high availability through
 - high quality components
 - manufacturing according to ISO 9001

The Transmitter

- ergonomic design
- weight starting at 1.8 kg. (4lbs) including battery
- battery capacity up to 1.6 Ah
- available with 3 joysticks
- joysticks for digital or analog control
- optional display for feedback from the receiver unit
- fully automatic, processor controlled battery charger

The Receiver

- safety monitored relays
- outputs through
 - fully programmable output relays
 - proportional outputs
- internal terminal strip for interlocks
- optional feedback for transmitting data, such as hook weight information, to the portable unit



Technical Details:

Frequency range:	405 to 475 MHz (70 cm Band) 140 to 175 MHz (2m Band)
Transmission data rate:	2400 Hz - 7200 Hz (20 kHz) 1200 Hz - 3100 Hz (12,5 kHz)
Typical reaction time:	60 ms (at 2400 Hz)
Modulation:	FM
Signal coding:	PPM
Hamming distance:	$d > 6$ (telegram check)
Transmitter output power:	10mW – 500 mW
Receiver sensitivity:	$< 1\mu\text{V}$ 10 dB (1+S/N)
Digital electronics:	highly redundant dual microprocessor system
Operation temperature:	-4°F to 140°F (-20°C to +60°C)
Storage temperature:	-40°F to 158°F (-40°C to +70°C)
Vibration:	DIN / IEC 68 Part 2 - 6
Shock, continuous shock:	DIN 40046 Part 7/26, IEC 68
Receiver relays:	Output relays at: max. 250 V AC / 6A max. 30V DC / 6A (resistive load)
Protection class:	Transmitter IP 65, Receiver IP 65, NEMA 3
Transmitter dimensions:	10.4 x 5.4 x 5.8 in. (WxHxD) (264 x 136 x 147 mm) plus guard rail
Transmitter weight:	starting at 1,8 kg (4 lb.)
Receiver dimensions:	11.8 x 13.8 x 7.1 in. (300 x 350 x 180 mm)
Receiver weight:	11.4 kg (25 lb.)
Mounting dimensions:	15.7 x 19.7 in. (400 x 500 mm, W x H)
Receiver power requirements:	48/110/230 V AC, 50/60 Hz \pm 10% option for 24 V DC (18 - 32 V DC)
Power consumption:	approx. 50 VA
Receiver protection class:	fully grounded
Transmitter power requirement:	12 V DC +10%, -5%

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