

joystick controllers

**C26
PRO**




safety remote control

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C26PRO, Fail Safe radio remote controls

The C26PRO series counts in a set of solutions that meet the strictest functional safety standards (EN 954-1) and achieved product certifications issued by TÜV Süddeutschland (Germany).

The ergonomic shape of joystick controllers, the actuator position, the clear panel serigraphs and the harness make the radio remote control easy to use.

Transmitting and receiving units are highly customisable (actuator arrangement, type and description of command actuators), so that they can be used even for particularly critical applications, where highest safety levels are needed.



Applications

The C26PRO series provides control systems suitable to the most varied applications (MD and MA models for tower cranes, overhead cranes, shipyards, ...). The KSI option (electro-hydraulic servo command kit) matched with the PRO-M model can also control hydraulic cranes installed on motor vehicles fitted with a manual distributor.



Tailor-made solutions



While maintaining the safety level for which they are distinguished, the radio remote controls of the C26PRO series can be configured (layout, type and description of the command actuators) to adapt to the most varying application requirements and usage habits.



MA for tracked stone cutting machine

Gallery

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MD - MA Transmitting Units | MD model with digital commands and customisable joysticks with up to 5 steps for each semi-axis. MA with 4 or 6 analogue commands plus on/off commands.

PRO-M Transmitting Units | Proportional single or dual axis joysticks and a 3-position toggle switch to set the speed. Housing is resistant and waterproof (protection degree IP65). 2 NiMH batteries and a battery charger are supplied.

MD



MA



PRO-M 02



DIMENSIONS: 236X173X160 mm
WEIGHT (including battery): ~ 2 kg



Safety

Autec designs and manufactures certified industrial radio remote controls whose safety level meets the strictest standards. All of the radio remote control design criteria (i.e.: functional and electrical safety, environmental protection, communication/radio) meet the current state of the art.

For the customer, the use of certified radio remote controls is a guarantee that safety, quality and reliability have been tested and checked by a competent, recognised and independent third party.

In the C26PRO series, the Stop function and the neutral position of the movement command actuators are protected against failure. Radio remote controls of this series are certified by TÜV Süddeutschland according to EN 954-1: the protection from unintended movements of the actuators from the standstill of actuators satisfies the requirements of category 3 of such standard, whereas the protection of the Stop circuit satisfies the requirements of category 4 (cert. MD: U001220186021; cert. MA: U001220186022; cert. PRO-M: Z10030720186024).

Radio frequency communication is made via a "proprietary Autec system", certified and suitable for "Safety Critical" applications: each radio remote control uses a code that is unique (different from all the others) and univocal (not reproducible).

Reliability

All the electronic and mechanical parts are designed, manufactured and tested to resist heavy duty usage in extreme working conditions: temperatures from -20°C to +55°C/+70°C, shocks and vibrations, chemical exposure (i.e. oils, varnishes and diluents), electromagnetic disturbance, dust and water (IP65).

100% of our radio remote controls are subject to functional tests in climatic chambers, carried out with testing instruments that ensure that construction specifications are respected.



DIMENSIONS	WEIGHT
250X338X150 mm	max 6 kg

C26PRO Receiving Unit



DIMENSIONS	WEIGHT
180X230X95 mm	max 2,8 kg

PRO-M Receiving Unit

C26PRO Receiving Unit | AC or DC power supply; wiring output through cable gland or 24 or 32 pole plug.

PRO-M Receiving Unit | DC power supply; wired output via 32-pole compact plug; analogue / digital or fieldbus outputs.

Materials are resistant to external agents. Protection degree IP65.

PRO-M 03



PRO-M 04



PRO-M 06



Technical data



General	
Frequency band	433-434 MHz (32 chan.) / 869.7-870 MHz (12 chan.) / 450-470 MHz FCC / 915 MHz FCC
Hamming distance	≥ 8
Typical operating range	150 m
Stop safety category	category 4 EN 954-1
Safety category for the protection against unintended movements of the actuators from their resting position	category 3 EN 954-1
Number of available on/off commands for MD	18+31 + Start and Stop
Number of available on/off/proportional commands for MA, PRO-M	12 + Start and Stop + 6 anal. high res. + 2 anal. low res.
Command response time for MA, MD	55-90 ms
Command response time for PRO-M	70-120 ms
Stop command response time for MA, MD	55-90 ms
Stop command response time for PRO-M	70-120 ms
Channel spacing	25 kHz (optional 12.5 kHz)
Performance of radio receiver	0.5 µV for 20 dB SINAD
Transmitting Unit	
Power supply	7.2V - 750 mAh (NiMH battery)
Autonomy with fully charged battery (continuous use at 20°C)	10 - 12 hours
Operating and storage temperature	(-20°C)-(+55°C) / (-40°C)-(+70°C)
Transmitting unit RF power	<10 mW ERP (433 MHz) / <5 mW ERP (870 MHz) / compliant with FCC part 90 (450 MHz) / compliant with FCC part 15 (915 MHz)
Low battery warning time	~ 3 minutes
Protection degree	IP65
Housing material	PA6 (20% fg)
C26PRO Receiving Unit	
Power supply	24/48/55/110/230 Vac ± 20% - 12/24 Vdc ± 25%
Antenna	integrated (external upon request)
Stop/Safety contact rating	10A (250 Vac)
Command contact rating	10A (250 Vac)
Operating and storage temperature	(-20°C)-(+70°C) / (-40°C)-(+70°C)
Protection degree	IP65
Housing material	glass-filled polyester
Output signals of analogue commands	0-24 Vdc (voltage) / 0-3A (current)
PRO-M Receiving Unit	
Power supply	8-30 Vdc (<40W)
Antenna	dedicated
Stop/Safety contact rating	10A (30 Vdc)
Command contact rating	4A (30 Vdc) for movement commands; 6A (30 Vdc) for selection commands
Operating and storage temperature	(-20°C)-(+70°C) / (-40°C)-(+70°C)
Protection degree	IP65
Housing material	PA6 (20% fg)
Output signals of analogue commands	0-24 Vdc (voltage) / 0-3A (current)

Products comply with the R&TTE Directive (99/05/EC), the LVD Directive (2006/95/EC) and the Machinery Directive (98/37/EEC), as applicable



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Cert. UNI EN ISO 9001:2000 Nr 50 100 2877 - Rev. 01
 Design, manufacture and service of remote control systems for safety industrial application

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