

Radio Remote Controls





- Extreme reliability attained through the use of high quality materials, combined with intense research and extensive product testing.
- Transmitters and receivers have a standard protection rating of IP65 and are manufactured in composite material (nylon charged with fibreglass) with high shock-resistance, thermal and mechanical stability, environmental and chemical exposure resistance.
- All products are designed in respect of the highest safety standards.
- The extremely large range of transmitters and receivers helped solve many applications within the construction and industrial fields without deviating from the standard range of products.



WAVE S4



WAVE S6



WAVE S8

Dimensions

75 x 43 x 180 mm

Weight

375 g

- 4, 6 or 8 2-Speed pushbuttons
- Start button and E/STOP
- Space for optional command which can be a multi-position rotary switch, a single speed button or an analogue potentiometer.



WAVE L10



WAVE L12

Dimensions

75 x 43 x 245 mm

Weight

445g

- 10 or 12 2-Speed pushbuttons
- Start button and E/STOP
- WAVE L10 can be equipped with a 8+8 digit LCD screen for the displaying of machine status information (using data feedback option).
- As with the WAVE S, the transmitter has space for an optional command which can be a multi-position rotary switch, a single speed button or an analogue potentiometer.





ZEUS B2

Dimensions

212 x 133 x 147 mm
212 x 169 x 147 mm

Weight

1090g



ZEUS M6

Dimensions

296 x 152 x 147 mm
296 x 190 x 147 mm

Weight

1450g



ZEUS NJ

Dimensions

212 x 133 x 147 mm
212 x 169 x 147 mm

Weight

1090g



THOR B3

Dimensions

296 x 152 x 147 mm
296 x 190 x 147 mm

Weight

1450g



THOR B4

Dimensions

296 x 152 x 147 mm
296 x 190 x 147 mm

Weight

1550g



THOR M8

Dimensions

296 x 152 x 147 mm
296 x 190 x 147 mm

Weight

1450g



THOR NJ

Dimensions

296 x 152 x 147 mm
296 x 190 x 147 mm

Weight

1400g



...NO LIMITS...



M
Dimensions
 180 x 120 x 73 mm
Weight
 910 g

- MAC**
- Din rail mounting inside electrical control panels
 - 21 relays + 4 proportional outputs.
 - Supplied with an external antenna plugged on BNC connector.
 - Power supply can range between 12 and 28 VAC/DC.



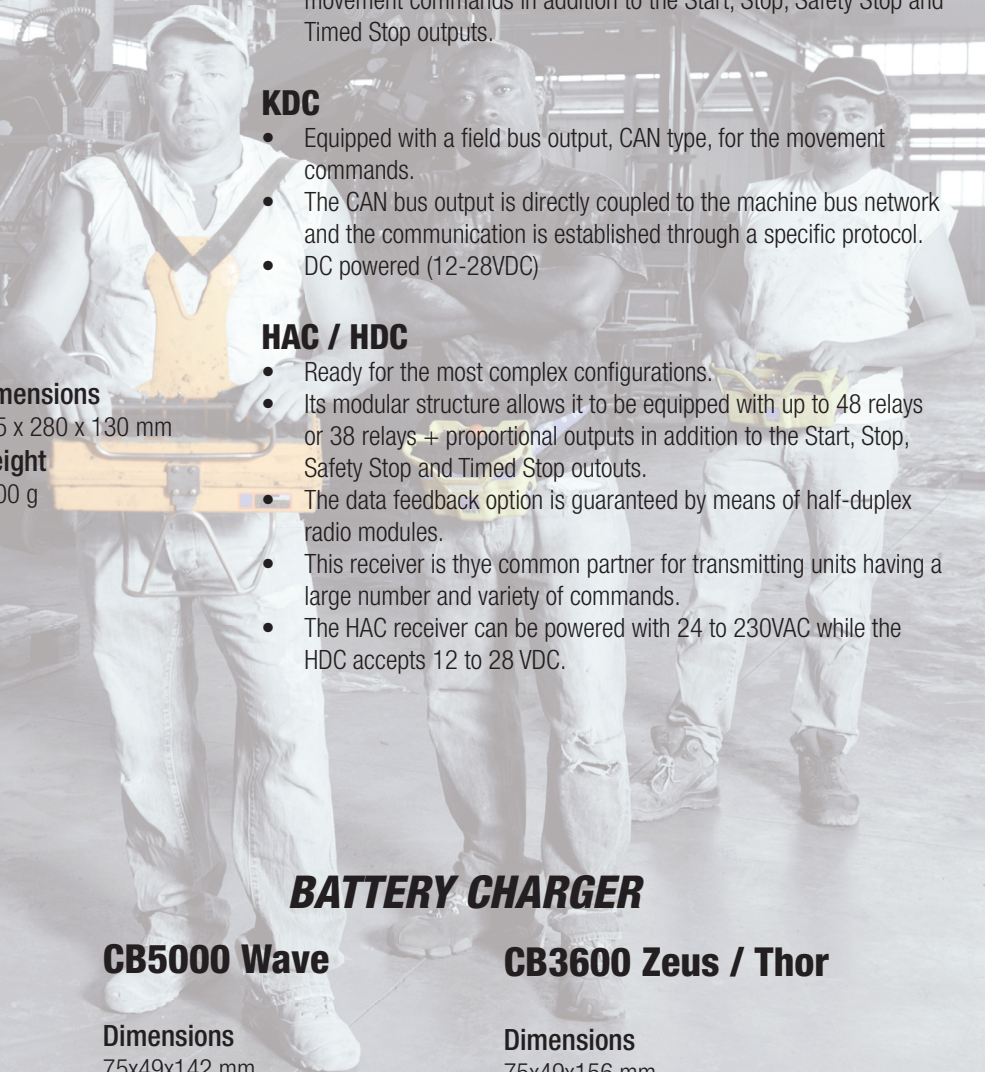
L/K
Dimensions
 145 x 225 x 65 mm
Weight
 1700 g

- LAC**
- The most common receiver for standard applications
 - Compact size and high versatility
 - Supply voltages (24-230VAC) and is equipped with 20 relays for the movement commands in addition to the Start, Stop and Safety Stop outputs.



H
Dimensions
 205 x 280 x 130 mm
Weight
 3500 g

- LDC**
- LDC receiver can be supplied with 12-28VDC
 - It is available in two versions: with 16 relays for the movement commands or with 20 solid state on/off + 8 proportional outputs for the movement commands in addition to the Start, Stop, Safety Stop and Timed Stop outputs.



- KDC**
- Equipped with a field bus output, CAN type, for the movement commands.
 - The CAN bus output is directly coupled to the machine bus network and the communication is established through a specific protocol.
 - DC powered (12-28VDC)

- HAC / HDC**
- Ready for the most complex configurations.
 - Its modular structure allows it to be equipped with up to 48 relays or 38 relays + proportional outputs in addition to the Start, Stop, Safety Stop and Timed Stop outputs.
 - The data feedback option is guaranteed by means of half-duplex radio modules.
 - This receiver is the common partner for transmitting units having a large number and variety of commands.
 - The HAC receiver can be powered with 24 to 230VAC while the HDC accepts 12 to 28 VDC.



BATTERY CHARGER

CB5000 Wave

Dimensions
 75x49x142 mm
Weight
 250 g

CB3600 Zeus / Thor

Dimensions
 75x49x156 mm
Weight
 251 g

GENERAL DATA

Working frequency	I.S.M Band 434.050 - 434.775 MHz
Reference norms	ETSI EN 300 220-3 V 1.1.1
Channel spacing	25 KHz Simplex, (25 KHz Half Duplex)*
Number of P.L.L. programmable radio channels	30
Range	≈ 100m
Modulation	GMSK
Emission power of the R.F. system	10 mW ERP (Antenna Internal)
RF receiver type	Supertherodine IF 83.16 MHz - 455 KHz*
Receiver sensibility	0,22µV per 12 dB Sinad
Emission class	25K0F1D
Hamming distance	≥ 9
Error non-detection probability	< 7,34 x 10 ⁻¹²
Delay time on receiver start	< 3 s
Available pairing addresses	65536
Delay time on the start command	< 750 ms
Response time of commands	< 110 ms, < 120 ms*
Response time of active emergency	< 150 ms, < 220 ms
Response time of passive emergency	< 800 ms
Safety category of STOP command	3 (UNI EN 954-1) M / 4 (UNI EN 954-1) W-Z-T
Safety category of movement commands	1-2 (UNI EN 954-1) W-M / 2-3 (UNI EN 954-1) Z-T
Safety category of datafeedback commands	1 (UNI EN 954-1)
Datafeedback ready	YES
Operation and storage temperature	-20 to +70°C (-4 to 158°F)

TRANSMITTING UNIT

	M8	WAVE S-L	ZEUS/THOR
Max. quantity of ON/OFF direct commands	32	16 S - 24 L - 20 L*	32
Max. quantity of ON/OFF undirect commands	48	48	48
Max. quantity on analogue commands	8	1	8
Service and Safety commands	4 (Start, Klaxon, Blinker, Stop)		
Housing protection degree	/	IP65	IP65
Housing material	ABS	Charged Nylon	Charged Nylon
Supply tension	12 min - 28 max Vac/Vdc	2,4 Vdc	3,6 Vdc
Current demand	240mA - 260mA*	100mA - 120mA*	160mA - 180mA*
Power demand	1.4 W - 1.5 W*	0.3 W	0.58 W - 0.65 W*
Battery	/	NiMh 2.4V-1.5A/H	NiMh 3.6V-1.7A/H
Autonomy at 20 °C with charged battery continuous operation	/	≈ 15 hours , ≈ 12 hours *	≈ 12 hours, ≈ 10 hours*
Advice time "battery down"	/	≈ 15 mins	≈ 15 mins
LCD Display (optional)	2 lines 16 ch.	2 lines 8 ch.	2 lines 16 ch., 4 lines 20 ch.
Visualisation speed for the ch. on the display*	100 char/s	100 char/s	100 char/s
Max. quantity of command relays (NO)	16*	/	/
Max. carrying capacity of command relays	6A	/	/
Input ports (optional)**	Serial RS485	/	/

RECEIVING UNIT

	M550 H	M550 L / K	M550 M
Service Commands	Start, T-Stop, Horn, Blink	Start, (Horn, T-Stop)***	Start, Horn, Blink
Safety Commands	Safety-stop, Stop	Safety-stop, Stop	Safety-stop, Stop
Max. quantity of ON/OFF command (NO)	48	20	21
Max. quantity of analogue command	8	8	4
PWM analogue output	0 - 1.4 A max	0 - 1.4 A max	/
Analogue output with loop of current	0 - 20 mA, 4 - 20 mA	0 - 20 mA, 4 - 20 mA	0 - 20 mA, 4 - 20 mA
Analogue output in tension	min 25% Vcc, med 50% Vcc, max 75% Vcc	min 25% Vcc, med 50% Vcc, max 75% Vcc	min 25% Vcc, med 50% Vcc, max 75% Vcc
Analogue output in tension	0 - (Vcc-3) reg.	0 - (Vcc-3) reg.	0 - (Vcc-3) reg.
Housing protection degree	IP65	IP65	/
Housing material	Charged Nylon	Charged Nylon	ABS
Datafeedback ready	YES	YES	YES
Input ports*	Serial, Parallel	CAN, Serial, Parallel	Serial, Parallel
Max quantity of digital inputs*	8	8	11
Max. quantity of analogue inputs*	4	4	4
Supply tension Vac	24, 48, 55, 110, 230	24, 48, 55, 110, 230	12 min - 28 max
Supply tension Vdc	12 min - 28 max	12 min - 28 max	12 min - 28 max
Power demand	20 W max	15 W max	15 W max

BATTERY CHARGER

	CB5000 WAVE	CB3600 Zeus / Thor
Supply tension	12 min - 32 max Vdc (optional 230 Vac)	12 min - 32 max Vdc (optional 230 Vac)
Power demand	250mA DC, 35mA AC, (while charging)	250mA DC, 35mA AC, (while charging)
Charging current	≈ 550mA	≈ 600mA
Max. charging time	3 hours	3 hours
Charge type	PVD	PVD
Housing protection degree	IP30	IP30
Storage temperature with loaded battery	+5 to + 45°C (+41 to +113°F)	+5 to + 45°C (+41 to +113°F)
Storage temperature off and without battery	-20 to +70°C (-4 to +158°F)	-20 to +70°C (-4 to +158°F)
Dimensions (L.P.H.)	75x49x142 mm	75x49x156 mm
Weight	250g	251g
Weight with 230Vac transformer (optional)	490g	491g

M = Transmitting Unit M8
W = Transmitting Unit Wave
Z = Transmitting Unit Zeus
T = Transmitting Unit Thor

* Data feedback version
** Only for data acquisition
*** DC

EN 954-1	EN 13849
CAT 4 →	PL e
CAT 3 →	PL d
CAT 2 →	PL c
CAT 1 →	PL b

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