

Radio Remote Control Systems
with console box transmitters
for mobile applications with analogue control

7/8



>>> CB70 monoblock battery charger



>>> CB70 battery charger

TM70



CHARACTERISTICS

- Available bands: 433/870/915/419/447/918 MHz
- NiMH rechargeable batteries
- Fast and intelligent CB70 battery charger
- Main mechanisms:
 - One axis analogue paddles
- Auxiliary mechanisms:
 - 1-0-1 position selector switches with maintained position or forced return to 0 position- 6, 16 and 24 positions binary and rotary switches
 - 0-1 position selectors switches with main-

- tained position or forced return to 0 position
- Easy and fast working frequency channel change by software and/or automatic working channel selection (LBT: Listen before talking)
- CAN bus physical layer compatible receiver with CANopen communication protocol; other available communication protocols,
- IQAN, SAE J1939, Profibus DP and RS-232 / RS-485 (optional)
- LCD70 display option for feedback information. Warning and alarm signals management

- with feedback option, using the graphic display and/or the bicoloured leds. Feedback of digital and/or analogue signals to the machine/user's interface.
- LA70 range limiter (optional). Specified working area limit range under defined working conditions. Tele-alignment option with radio link to adjust remotely receiver's analogue electronic cards -functional parameters- from the transmitter, providing on site and customized machines' response.

TM70

MODEL	IKUSI REFERENCE	ISM BAND	ERP mW
TM70/7.13	3302410	870 MHz	5
TM70/7.21	3302420	870 MHz	5
TM70/7.29	3302430	870 MHz	5
TM70/8.13	3302440	870 MHz	5
TM70/8.21	3302460	870 MHz	5
TM70/8.29	3302470	870 MHz	5
FREQUENCES	IKUSI REFERENCE	MHz	ERP mW
Standard B1	XXXXXXXX	869,700-870,0000	5
Option B2	XXXXXXXX-433	433,050-434,040	10
Option B3	XXXXXXXX-433	434,040-434,790	1
Option B4	XXXXXXXX-915	914,150-915,875	5
Option B5	XXXXXXXX-419	418,950-419,250	10
Option B6	XXXXXXXX-447	447,600-447,975	5
Option B7	XXXXXXXX-918	918,000-919,725	5
TRANSMITTER TECHNICAL SPECIFICATIONS			
Type of transmitter	T70/7		T70/8
Analogue paddles	6		8
Weight (with battery)	1650 g		1950 g
IP / NEMA ingress protection	IP65 / NEMA-4		
Battery life	16 h (50% duty cycle)		
Operating temperature range	-20°C +70°C		
RECEIVER TECHNICAL SPECIFICATIONS			
Type of receiver	R70/13 board + voltage and/or current output modules		
Power supply (DC) / LR72 (DC)	12 or 24Vdc		
Dimensions	285x200x110 mm		
Operating temperature range	-20°C +70°C		
Protection - watertightness rate	IP65		
Number of output commands	13		
Auxiliary relays	START + STOP + SAFETY (KSAFETY)		
STOP function	Category 3 according to EN-954-1 or EN 13849 safety standards		
OUTPUT relays characteristics	230 Vac / 8A ACI		
Voltage analogue output module A2VCAN	2 voltage analogue output (each module)		
Current analogue output module A2ICAN	2 current analogue output (each module)		
Maximun number of A2VCAN modules	4 modules -> 8 voltage analogue outputs		
Maximun number of A2ICAN modules	4 modules -> 8 current analogue outputs		
A2VCAN and A2ICAN module combinations	N x M (max=8)		
BATTERY CHARGER TECHNICAL SPECIFICATIONS			
Power supply (AC)	115, 230 Vac ± 10%; 50/60Hz (depending on the model)		
Power supply (DC)	10,5 - 35 Vdc		
Charging mode	Fast (< 2 hours) and intelligent -charging mode adapted to battery model-		
BATTERY TECHNICAL SPECIFICATIONS			
Model	BT20K		
Type	NiMH		
Capacity	2000 mAh, 4,8 V		
Charging temperature range	0 to 40°C		