

TM70 7&8

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



CHARACTERISTICS:

- Available bands: 433/870/915/419/447/918 MHz
- NiMH rechargeable batteries
- Fast (< 2 hours) and intelligent (adapted to current charge and battery model) CB70 battery charger
- Main mechanisms:
 - Electrical two axis one step joystick -configurations: opened and crossed-
- Auxiliary mechanisms:
 - 1-0-1 position selector switches with maintained position or forced return to 0 position
- 0-1 position selector switches with maintained position or forced return to 0 position
- 6, 16 and 24 positions binary and rotary switches
- 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.



>>> CB70 monoblock battery charger

>>> CB70 battery charger

TECHNICAL SPECIFICATIONS:

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	XXXXXXX	869,700-870,0000	5
Option B2	XXXXXXX-433	433,050-434,040	10
Option B3	XXXXXXX-433	434,040-434,790	1
Option B4	XXXXXXX-915	914,150-915,875	5
Option B5	XXXXXXX-419	418,950-419,250	10
Option B6	XXXXXXX-447	447,600-447,975	5
Option B7	XXXXXXX-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		
Voltaje 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		



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