

MP10G

Radio remote
control systems for
mobile machinery



CHARACTERISTICS:

Radio remote control systems for mobile machinery or self-propelled systems. 12 and 24v DC power supply compatibility with 10 PWM outputs corresponding to 10 different functions.

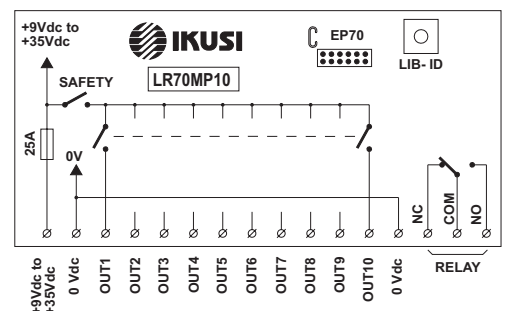
- New tactile and high sensitivity keyboard.
- Slim dimensions and reduced weight.

- Automatic working channel selection.
- Auto ID teaching function and ID releasing function from the current transmitter or from a new transmitter.
- Remotely programmable receiver's outputs using the programmer module (radio remote programmer module).

- EP70 EEPROM or detachable SIM module compatibility (TM70 range), to backup or to restore system's configurations.



>>> R70MP10 Receiver



>>> Block diagram for receiver output

TECHNICAL SPECIFICATIONS:

MODELS	IKUSI's PART NUMBER
70ME801 TM70MP10-870-G	3302650
70ME902 TM70MP10-915-G	3302652
70ME401 TM70MP10-433-G	3302657
TRANSMITTER CHARACTERISTICS	TECHNICAL SPECIFICATIONS
Available frequency	
PART NUMBERS 3302650 / 3302652 / 3302657	870MHz / 915MHz / 433MHz
RF Power (ERP)	< 1mW 915MHz / < 5mW 870MHz / < 10mW 433MHz
Modulation type	FSK 4800 bps and 7.200 bps
Protection	IP65 / NEMA-4
Channel bandwidth	25KHz
Number of IDs	64K per band
Response time	< 150ms
Working channel selection	Automatic at transmitters' start-up -by Eeprom setup-
Antenna	Printed circuit board integrated (standard)
Weight	180gr (without batteries)
Dimensions	Length = 160mm / Wide = 75mm / Height = 45mm
Non rechargeable (Alkaline) and rechargeable (NiMH) batteries	Alkaline type AA 1,5V 2600mAh (-10°C / +50°C) (14°F / 122°F) Commercial Range NiMH type AA 1,2V 1200mAh (-20°C / +70°C) (-4°F / 158°F) Industrial Range
Battery life	>12h (100% duty cycle) Alkaline 2600mAh >6h (100% duty cycle) NiMH 1200mAh
EEPROM	Internal / External EP70 -optional-
Operating temperature range	-20°C / +70°C (-4°F / 158°F)
Signalling	1 bicoloured LED (RUN labelled)
Acoustic signalling	Internal buzzer
Number of functions	10 functions max. (1 step) + ON/OFF function
RECEIVER CHARACTERISTICS	TECHNICAL SPECIFICATIONS
Available frequency	
PART NUMBERS 3302650 / 3302652 / 3302657	870MHz / 915MHz / 433MHz
Power supply	9-35V DC
Number of outputs	10 MOSFET (PWM)
Protection	IP65 / NEMA-4
Antenna	Printed circuit board integrated (standard)
Working channel selection	Automatic at transmitters' start-up
Weight	430 gr.
Dimensions	Length = 151mm / Wide = 129mm (160mm with PG) / Height = 61mm
EEPROM	Internal / External EP70 -extractable-
Status signalling	MultiLED: 7 LED visible externally
Connexions	Plug-In terminals: inputs/outputs with PG11 / M16 and PG16 / M20 cable glands
Maximum current per output	5A
Maximum current output (total)	15A
PWM outputs frequency range	30 - 300Hz
Output accuracy	16 bits (power supply range)
Electrical input protection	Fuse protected
Electrical output protections	Polarity inversion / Short-circuit
Operating temperature	-20°C / +70°C (-4°F / 158°F)
Disconnecting security	A MOSFET transistor connected with the positive value of the power supply provides security functions.

PROGRAMMABLE VALUES		
Parameter	Default value	Range (programmable values)
START (LLAVE SOFTWARE)	NO	See User's Manual
SEARCH MODE	OFF	ON, OFF. (SEARCH MODE)
TOUT LATENCY	4min	1 to 6min; steps of 1 min, and infinite ("INF" value) minutes. (Time to LATENCY state)
TOUT OFF	15min	10 to 20min step of 1 min, and infinite ("INF" value). (Time from LATENCY state to "Stand-by" state or "low consumption" mode)
TSTOP	2s	1 to 10sec.: steps of 0,1sec. (Passive STOP time)
OUTMODE	MOMENTARY	MOMENTARY or LATCHING (OUTPUTS: OPERATING MODES)
SOFTSTART	ON	ON or OFF (Enable or Disable soft start)
SOFTSTOP	ON	ON or OFF (Enable or Disable soft stop)
ACCEL RAMP	0,1s	0,0sec, 0,1sec, 0,2sec, 0,3sec, 0,4sec, 0,5sec, 0,6sec, 0,8sec, 1,0sec, 1,2sec, 1,5sec, 1,7sec, 2,0sec, 2,5sec 3,5sec, 5,0sec (Ramp acceleration adjustment for each output)
DECEL RAMP	0,1s	0,0sec, 0,1sec, 0,2sec, 0,3sec, 0,4sec, 0,5sec, 0,6sec, 0,8sec, 1,0sec, 1,2sec, 1,5sec, 1,7sec, 2,0sec, 2,5sec 3,5sec, 5,0sec (Ramp deceleration adjustment for each output)
PWM FREQ	300Hz	30Hz to 300Hz; Step = 10Hz. (R70MP10: PWM output frequency adjustment. Independent for each output).

DESCRIPTION

Radio remote control systems for mobile machinery or self-propelled systems. 12 and 24v DC power supply compatibility with 10 PWM outputs corresponding to 10 different functions.

- New tactile and high sensitivity keyboard.
- Slim dimensions and reduced weight.
- Ergonomic transmitter with one or two step pushbuttons.
- Automatic working channel selection –programmable by Eeprom setup-
- Auto ID teaching function.
- ID releasing function from the current transmitter or from a new transmitter.
- Programmable receiver's outputs –momentary and/or latched individually temporized response- using the AP70 Eeprom Recorder.
- EP70 EEPROM or detachable SIM module compatibility.(TM70 range), to backup or to restore system's configurations, providing an easy maintenance, for example using a new transmitter.



HEADQUARTERS - SPAIN

IKUSI - Ángel Iglesias S.A.

Pº Miramón, 170 · 20009 San Sebastián · SPAIN

Tél.: +34 943 44 88 00 · Fax: +34 943 44 88 20

tlc@ikusi.com · www.ikusi.com