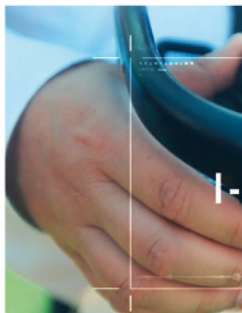




IKUSI
velatia

S
S

Catalogue Radio Remote Control



REMOTE CONTROL

Ikusi Remote Control designs, manufactures and sells radio controls and radio communication-based electronic systems for remotely controlling mobile and/or fixed industrial lifting machinery, which also have various other applications. The option of operating different types of machinery by remote control greatly increases the precision and safety levels as well as the manoeuvrability of the machinery.

Ikusi produced the first remote control for industrial applications in Spain back in 1984. Since then, it has developed a broad and sturdy range of wireless remote controls and become one of the benchmark manufacturers, in Spain and internationally.

ntro

- 04 Transmitters
- 24 Receivers
- 46 Accessories
- 48 Customization



HALLMARKS

Service

Ikusi's idea of service is ever more wide-ranging. It involves the entire customer relationship process, from pre-sales to after-sales, passing through all the stages in-between. A quick, agile service built on a professional support team and an extensive network of distributors around the world to provide the end-customer with quality technical support.

Customization

Ikusi acts as a technology partner for its customers, in order to meet the market demand for flexible products and bespoke solutions. Ikusi can always be found alongside its customers, listening to them and designing highly individualized, adaptable equipment in line with their requirements.

Technology

Ikusi develops and manufactures highly reliable, cutting-edge products at its own facilities, ensuring that all equipment can operate in the most demanding conditions and environments, in line with the most stringent regulations and health and safety requirements.

IK 2

The compact console box

- Up to 2 joysticks or 4 paddles
- Multiband radio with Full-Duplex communication
- Highly customizable
- 128x64 Graphic LCD
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Innovative ergonomics
- Non-slip handles
- Frequency management against interferences

Specifications

Transmitter	IK 2
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	Goretex film
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Joystick (2) / paddle (4)
Auxiliary mechanisms	Pushbutton, toggle & rotary switches
Removable EEPROM	External
Battery model	BT11K
Battery life	16h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	950
Harness	Belt / shoulder strap
Display	128x64 Graphic LCD
Cable connection	Yes (M12 connector)
Range limiter	Yes
Associated receivers	R13/R70/MPCAN/MP08/MP20

Associated Applications:



External removable
EEPROM SIM
module

ikontrol

IK 3

When service meets design

- Up to 3 joysticks or 6 paddles
- Multiband radio with Full-Duplex communication
- Highly customizable
- 3.5" color TFT display
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Innovative ergonomics
- Non-slip handles
- Frequency management against interferences

Specifications

Transmitter	IK 3
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	Goretex film
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Joystick (3) / paddle (6)
Auxiliary mechanisms	Pushbutton, toggle & rotary switches
Removable EEPROM	External
Battery model	BT24IK
Battery life	16h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	1780
Harness	Belt / shoulder strap
Display	3.5" Colour TFT
Cable connection	Yes (M12 connector)
Range limiter	Yes
Associated receivers	R13/R70/R70PLUS/MPCAN/MP20

Associated Applications:



External removable
EEPROM SIM
module

ikontrol

IK 4

Service, design and endless options

- Up to 4 joysticks or 8 paddles
- Multiband radio with Full-Duplex communication
- Highly customizable
- 3.5" color TFT display
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Innovative ergonomics
- Non-slip handles
- Frequency management against interferences

Specifications

Transmitter	IK 4
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	Goretex film
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Joystick (4)/paddle (8)
Auxiliary mechanisms	Pushbutton, toggle & rotary switches
Removable EEPROM	External
Battery model	BT24IK
Battery life	16h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	2300
Harness	Belt / shoulder strap
Display	3.5" Colour TFT
Cable connection	Yes (M12 connector)
Range limiter	Yes
Associated receivers	R13/R70/R70PLUS/MPCAN/MP20

Associated Applications:



External removable
EEPROM SIM
module

ikontrol

NEW

ikore

Designed for standard EOT Cranes

- High-sensitivity two-step push button
- Radio communication at 2,4 GHz
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Improved ergonomics
- Hoist selection pushbutton
- Frequency management against interferences

Specifications

Transmitter	ikore
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	na
Frequency band	2,4 GHz
Main mechanisms (max. #)	Pushbutton (6)
Auxiliary mechanisms	na
Removable EEPROM	External
Battery model	4 x AAA / BT11K
Operating temperature range	-20°C +70°C (-4F +158F).
Weight (with battery) grams	315
Harness	Hand strap / Shoulder strap
Display	na
Cable connection	na
Range limiter	na
Associated receivers	R11

Associated Applications:

T 70 1

The classic for lifting applications

- High-sensitivity two-step push button
- Multiband radio with Full-Duplex communication
- Highly customizable
- LCD display
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Frequency management against interferences

Specifications

Transmitter	T70 1
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	na
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Pushbutton (6)
Auxiliary mechanisms	Toggle & rotary switches
Removable EEPROM	External
Battery model	BT06K
Battery life	10h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	460
Harness	Hand strap / shoulder strap
Display	2x12 Char LCD
Cable connection	na
Range limiter	Yes
Associated receivers	R06/R13/R70/MPCAN/MP08

Associated Applications:



External removable
EEPROM SIM
module

T 70 2

Multiple configurations on a compact transmitter

- High-sensitivity two-step push button
- Multiband radio with Full-Duplex communication
- Highly customizable
- LCD display
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Frequency management against interferences

Specifications

Transmitter	T70 2
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	na
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Pushbutton (10)
Auxiliary mechanisms	Toggle & rotary switches
Removable EEPROM	External
Battery model	BT06K
Battery life	10h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	550
Harness	Hand strap / shoulder strap
Display	2x12 Char LCD
Cable connection	na
Range limiter	Yes
Associated receivers	R13/R70/MPCAN/MP08/MP20

Associated Applications:



External removable
EEPROM SIM
module

T 70 1 HALL

Precision at your fingertips

- High-sensitivity proportional push button
- Multiband radio with Full-Duplex communication
- Highly customizable
- LCD display
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Frequency management against interferences

Specifications

Transmitter	T70 1 HALL
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	na
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Pushbutton (6)
Auxiliary mechanisms	Toggle & rotary switches
Removable EEPROM	External
Battery model	BT06K
Battery life	10h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	460
Harness	Hand strap / shoulder strap
Display	2x12 Char LCD
Cable connection	na
Range limiter	Yes
Associated receivers	R13/R70/MPCAN/MP08

Associated Applications:



External removable
EEPROM SIM
module

T 70 2 HALL

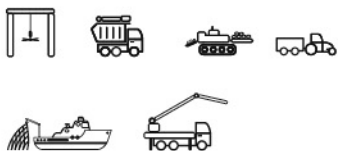
Precision and total customisation

- High-sensitivity proportional push button
- Multiband radio with Full-Duplex communication
- Highly customizable
- LCD display
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Frequency management against interferences

Specifications

Transmitter	T70 2 HALL
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	na
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Pushbutton (10)
Auxiliary mechanisms	Toggle & rotary switches
Removable EEPROM	External
Battery model	BT06K
Battery life	10h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	550
Harness	Hand strap / shoulder strap
Display	2x12 Char LCD
Cable connection	na
Range limiter	Yes
Associated receivers	R13/R70/MPCAN/MP08/MP20

Associated Applications:



External removable
EEPROM SIM
module

T 70 1 ATEX

The transmitter for hazardous areas

- High-sensitivity two-step push button
- Multiband radio with Full-Duplex communication
- Highly customizable
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Frequency management against interferences
- Intrinsically safe

Specifications

Transmitter	T70 1 ATEX
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	na
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Pushbutton (6)
Auxiliary mechanisms	Toggle & rotary switches
Removable EEPROM	External
Battery model	BT06K-ATEX
Battery life	8h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	500
Harness	Hand strap / shoulder strap
Display	na
Cable connection	na
Range limiter	na
Associated receivers	R70/R70 ATEX Z1/R13 ATEX Z2

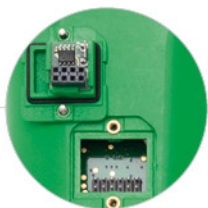
> ATEX / IECEx

Ex II 2 GD
Ex ia IIC T4 Gb
Ex ia IIIC T135°C Db
CE0080
INERIS 08ATEX0006
IECEx INE 09.0014

> CSA / UL

Class I, Division 1, Groups A,B,C & D
Class II, Division 1, Groups E,F & G
Zone 21, AEx iaD T135°C T4 IP65

Associated Applications:



External removable
EEPROM SIM
module

T 70 2 ATEX

Customisation for hazardous areas

- High-sensitivity two-step push button
- Multiband radio with Full-Duplex communication
- Highly customizable
- External removable EEPROM SIM module
- Easy and fast maintenance
- High resistance to impacts
- Frequency management against interferences
- Intrinsically safe

Specifications

Transmitters	T70 2 ATEX
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Anti condensation system	na
Frequency band	Multiband (400 - 930 MHz)
Main mechanisms (max. #)	Pushbutton (10)
Auxiliary mechanisms	Toggle & rotary switches
Removable EEPROM	External
Battery model	BT06K-ATEX
Battery life	8h
Operating temperature range	-20C +70C (-4F +158F)
Weight (with battery) grams	600
Harness	Hand strap / shoulder strap
Display	na
Cable connection	na
Range limiter	na
Associated receivers	R70/R70 ATEX Z1/R13 ATEX Z2

> ATEX / IECEx

Ex II 2 GD

Ex ia IIC T4 Gb

Ex ia IIIC T135°C Db

CE0080

INERIS 08ATEX0006

IECEx INE 09.0014

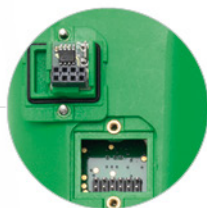
> CSA / UL

Class I, Division 1, Groups A,B,C & D

Class II, Division 1, Groups E,F & G

Zone 21, AEx iaD T135°C T4 IP65

Associated Applications:



External removable
EEPROM SIM
module

R06

The hoist receiver

- Multiband radio with Full-Duplex communication
- External LEDs for troubleshooting
- Highly field-customizable
- Removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1: 2008
- Easy and fast maintenance
- Multi-feedback capability
- 6 digital outputs

Specifications

Receivers	R06
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	18-30 / 48-230 Vac
DC Power supply	8-36 Vdc
Antenna	External /internal
Removable EEPROM	Internal
Signalling	External
ON/OFF outputs (max.)	6
Analogue outputs (max.)	na
CANOpen, Profibus-DP, SAE J1939	Yes
ON/OFF inputs (max.)	4
Analogue Inputs (max.)	1
Maximum output current	6A
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	640
Dimensions (LxWxH mm)	151x129x61
Cable connection	Yes
Associated transmitters	T70/1, T70/1ATEX, IK2

Associated Applications:

NEW

R11

The receiver for standard EOT cranes

- Radio communication at 2,4 GHz
- Removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Multi-feedback capability
- 11 digital outputs

Specificacions

Receiver	R11
Stop Function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	2,4 GHz
AC Power supply	18-30 / 48-230 Vac
DC Power supply	8-36 Vdc
Antenna	Internal
Removable EEPROM	Internal
Signalling	Internal
ON/OFF outputs (max.)	11
Analogue Outputs (max.)	na
CANOpen, Profibus-DP, SAE J1939	na
ON/OFF inputs (max.)	na
Analogue Inputs (max.)	na
Maximum output Current	8A
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	800
Dimensions (LxWxH mm)	164x210x60
Cable connection	na
Associated Transmitters	Ikore

Associated Applications:

R13B

The standard solution for Industrial cranes

- Multiband radio with Full-Duplex communication
- External LEDs for troubleshooting
- Highly field-customizable
- External removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Multi-feedback capability
- 13 digital outputs

Specifications

Receivers	R13B
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	18-30 / 48-230 Vac
DC Power supply	8-36 Vdc
Antenna	External/ internal
Removable EEPROM	External
Signalling	External
ON/OFF outputs (max.)	13
Analogue outputs (max.)	na
CANOpen, Profibus-DP, SAE J1939	na
ON/OFF inputs (max.)	4
Analogue inputs (max.)	1
Maximum output current	8A
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	1350
Dimensions (LxWxH mm)	245x160x80
Cable connection	na
Associated transmitters	T70/1, T70/2, T70/1 ATEX, T70/2ATEX, IK2, IK3

Associated Applications:



External LEDs for troubleshooting

External removable EEPROM SIM module



R13F

The customize solution for industrial cranes

- Multiband radio with Full-Duplex communication
- External display for troubleshooting
- Highly field-customizable
- External removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Multi-feedback capability
- 21 digital and 4 analogue outputs
- Suitable for all common proportional valves

Specifications

Receivers	R13F
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	18-30 / 48-230 Vac
DC Power supply	8-36 Vdc
Antenna	External/ internal
Removable EEPROM	External
Signalling	External
ON/OFF outputs (max.)	21
Analogue outputs (max.)	4
CANOpen, Profibus-DP, SAE J1939	Yes
ON/OFF inputs (max.)	24
Analogue inputs (max.)	6
Maximum output current	8A
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	Config dependable
Dimensions (LxWxH mm)	245x160x80
Cable connection	Yes
Associated transmitters	T70/1, T70/2, T70/1 HALL, T70/2 HALL, T70/1 ATEX, T70/2 ATEX, IK2, IK3, IK4

Associated Applications:

External display
for troubleshooting

External removable
EEPROM SIM
module



NEW

MPCAN

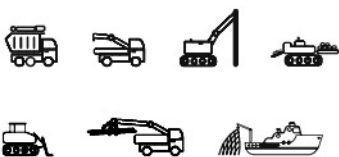
Adapted to vehicles with CAN Bus communication

- Multiband radio with Full-Duplex communication
- External LEDs for troubleshooting
- Highly field-customizable
- Removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Multi-feedback capability
- 4 digital outputs/inputs

Specificacions

Receiver	MPCAN
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	na
DC Power supply	9 -35 Vdc
Antenna	External / internal
Removable EEPROM	Internal
Signalling	External
ON/OFF outputs (max.)	4
Analogue outputs (max.)	na
CANOpen, Profibus-DP, SAE J1939	Yes
ON/OFF inputs (max.)	4
Analogue inputs (max.)	na
Maximum output current	2A
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	300
Dimensions (LxWxH mm)	117x133x36
Cable connection	Yes
Associated transmitters	T70/1, T70/2, T70/1HALL, T70/2HALL, T70/1 ATEX, T70/2 ATEX, IK2, IK3, IK4

Associated Applications:



MP08

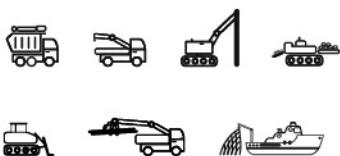
Mobile applications in reduced spaces

- Multiband radio with Full-Duplex communication
- External LEDs for troubleshooting
- Highly field-customizable
- Removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Multi-feedback capability
- 12 digital and 4 analogue outputs (PWM/voltage)
- Suitable for all common proportional valves

Specifications

Receptores	MP08A / MP08V
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	na
DC Power supply	9 -35 Vdc
Antenna	External/internal
Removable EEPROM	Internal
Signalling	External
ON/OFF outputs (max.)	12 / 8
Analogue outputs (max.)	4 (PWM) / 4 (voltage)
CANOpen, Profibus-DP, SAE J1939	na / yes
ON/OFF inputs (max.)	4 / 2
Analogue inputs (max.)	1
Maximum digital output current	2A / 2A
Maximum analogue output current	2,5A / 20mA
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	300
Dimensions (LxWxH mm)	117x133x36
Cable connection	Yes
Associated transmitters	T70/1HALL, T70/2HALL, IK2, IK3

Associated Applications:



MP20

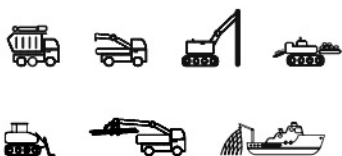
When service is paramount

- Multiband radio with Full-Duplex communication
- External display for troubleshooting
- Highly field-customizable
- External removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Multi-feedback capability
- 28 digital and 8 analogue outputs (PWM/voltage)
- Suitable for all common proportional valves

Specifications

Receivers	MP 20A / MP 20V
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	na
DC Power supply	9-35 Vdc
Antenna	External/ internal
Removable EEPROM	External
Signalling	External
ON/OFF outputs (max.)	28 / 12
Analogue outputs (max.)	8 (PWM) / 8 (voltage)
CANOpen, Profibus-DP, SAE J1939	Yes
ON/OFF inputs (max.)	24
Analogue inputs (max.)	5
Maximum digital output current	2A / 2A
Maximum analogue output current	2,5A / 20mA
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	1350
Dimensions (LxWxH mm)	245x160x80
Cable connection	Yes
Associated transmitters	T70/2 HALL, IK2, IK3, IK4

Associated Applications:



External display
for troubleshooting



External removable
EEPROM SIM
module

R70

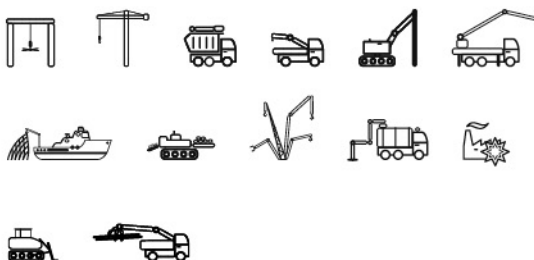
Flexibility for any application

- Multiband radio with Full-Duplex communication
- Highly field-customizable
- Removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Multi-feedback capability
- 29 digital and 8 analogue outputs
- Suitable for all common proportional valves

Specifications

Receivers	R70
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	18-30 / 48-230 Vac
DC Power supply	8-36 Vdc
Antenna	External / internal
Removable EEPROM	Internal
Signalling	Internal
ON/OFF outputs (max.)	29
Analogue outputs (max.)	8
CANOpen, Profibus-DP, SAE J1939	Yes
ON/OFF inputs (max.)	44
Analogue inputs (max.)	8
Maximum output Current	8A
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	Config dependable
Dimensions (LxWxH mm)	285x200x110
Cable connection	Yes
Associated transmitters	T70/1, T70/2, T70/1 HALL, T70/2 HALL, T70/1 ATEX, T70/2 ATEX, IK2, IK3, IK4

Associated Applications:



R70 PLUS

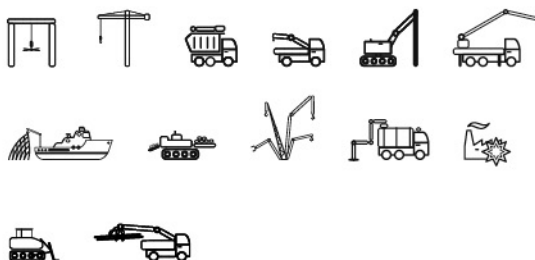
Endless possibilities

- Multiband radio with Full-Duplex communication
- Highly field-customizable
- Removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Multi-feedback capability
- 53 digital and 8 analogue outputs
- Suitable for all common proportional valves

Specifications

Receivers	R70 PLUS
Stop function	Cat. 3 - PLd
Ingress protection	IP65/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	18-30 / 48-230 Vac
DC Power supply	8-36 Vdc
Antenna	External
Removable EEPROM	Internal
Signalling	Internal
ON/OFF outputs (max.)	53
Analogue outputs (max.)	10
CANOpen, Profibus-DP, SAE J1939	Yes
ON/OFF inputs (max.)	44
Analogue inputs (max.)	8
Maximum output current	8A
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	Config dependable
Dimensions (LxWxH mm)	350x250x150
Cable connection	Yes
Associated transmitters	IK3, IK4

Associated Applications:



NEW

R13 ATEX Z2

The receiver for Zone 2 classification hazardous areas

- Multiband radio with Full-Duplex communication
- Highly field-customizable
- Removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Low mechanical risk
- Electrostatic build-up risk
- 13 digital outputs

Specificacions

Receiver	R13 ATEX Z2
Stop function	Cat. 3 - PLd
Ingress protection	IP64/NEMA4
Frequency band	Multiband (400 - 930 MHz)
AC Power supply	230 Vac
DC Power supply	na
Antenna	External/ internal
Removable EEPROM	Internal
Signalling	internal
ON/OFF outputs (max.)	13
Analogue Outputs (max.)	na
CANOpen, Profibus-DP, SAE J1939	na
ON/OFF inputs (max.)	na
Analogue inputs (max.)	na
Maximum output current	8A
Working temperature range	-20C +50C (-4F +122F)
Weight (g)	1350
Dimensions (LxWxH mm)	245x160x80
Cable connection	na
Associated transmitters	T70/1 ATEX, T70/2 ATEX

Associated Applications:**> ATEX/IECEx****⊕ II 3 GD**

Ex ic nA nC IIC T4 Gc

Ex ic tc IIIC T135°C Dc

T.amb:-20°C +50°C

CE 0080

INERIS 14ATEX3013X

R70 ATEX Z1

The receiver for hazardous areas

- Multiband radio with Full-Duplex communication
- Highly field-customizable
- Removable EEPROM SIM module
- Frequencies management against interferences
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Easy and fast maintenance
- Explosion proof
- 29 digital outputs

Specifications

Receivers	R70 ATEX Z1
Stop function	Cat. 3 - PLd
Ingress protection	IP66/NEMA4
Frequency band	Multibanda (400 - 930 MHz)
AC Power supply	48/115/230 Vac
DC Power supply	na
Antenna	External
Removable EEPROM	Internal
Signalling	Internal
ON/OFF outputs (max.)	29
Analogue outputs (max.)	na
CANOpen, Profibus-DP, SAE J1939	na
ON/OFF inputs (max.)	na
Analogue inputs (max.)	na
Maximum output current	8A
Working temperature range	-20C +70C (-4F +158F)
Weight (g)	Config dependable
Dimensions (LxWxH mm)	452x350x207
Cable connection	na
Associated transmitters	T70/1 ATEX, T70/2 ATEX

Associated Applications:



> ATEX/ IECEx

Ⓜ II 2 GD

Ex d ia IIB T5

Ex tD iaDA21 IP65 T100°C

T.amb:-20°C +70°C

CE 0080

INERIS 08ATEX029

Battery charger

CB70

The CB70 battery charger has two charge housings for the simultaneous charging of two batteries models BT06K and BT24IK and BT06K ATEX.



Battery

BT06K

The BT06K model battery is a rechargeable NiMH (Nickel Metal Hydride) battery for use with pushbutton transmitters from the TM70 range (models T70/1 and T70/2).



BT24IK

The BT24IK model battery is a rechargeable NiMH (Nickel Metal Hydride) battery for use with console box transmitters IK3 and IK4.



BT06K ATEX

The BT06K ATEX model battery is a rechargeable NiMH (Nickel Metal Hydride) battery for use with pushbutton transmitters from the TM70 range models T70 1 ATEX and T70 2 ATEX.



Battery charger

BC70K

The BC70K battery charger has two charge housings for the simultaneous charging of two batteries model BT11K. It has a fast and intelligent type of charge.

Battery

BT11K

The BT11K model battery is a rechargeable Li-Ion (Lithium-ion) battery for use with console box transmitter model IK2 and Ikore.

Customization Options

External EEPROM

Removable memory card. Quick and easy restoration of service with a spare unit in the



event of transmitter or receiver failure. If the transmitter is completely destroyed, the replacement can copy the EEPROM from the receiver.

Colour TFT

3.5" colour TFT display with high image quality for displaying feedback information. Possibility of



full-duplex communication. The new Ikugraph software enables the customization of the feedback shown in the display.

LEDs Panel

The panel of the IK3 and IK4 transmitters has a maximum number of 12 LEDs and the possibility of



incorporating two side lanterns. Meanwhile, the IK2 transmitter has a maximum of 8 LEDs and does not bring the opportunity to set up the lanterns.

Range Limiter

The remote can only be used when there is an infrared connection between the infrared transmitter and the radio



transmitter. This rules out risk situations caused by activating the remote without a clear and safe view of the machine.

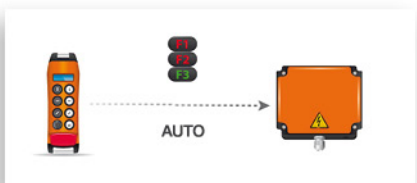
Twin Synchro

The most compact tandem solution. A system conformed by a master transmitter (pushbutton or console box) which controls by the use of radio signals simultaneously and in a synchronized way the movements of two cranes working in tandem mode.



AFA (Automatic Frequency Agility)

The locating of available frequencies or better quality ones takes place automatically



without any user intervention. This makes it more convenient for the user, and allows productivity to be increased as it almost completely cuts the downtime of the equipment and, therefore, of the machine being operated through the remote control device.

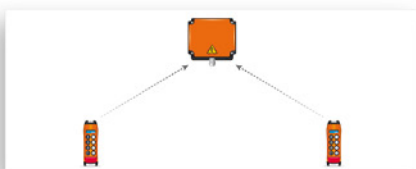
Multiple receiver systems

Possibility of working with a single transmitter and multiple receivers at the same time.



Multiple transmitter systems (First Come First Served)

Possibility of working with multiple transmitters and a single receiver. The first device to link up assumes control of the machine.



Communication protocols

Our receivers can communicate through different serial communication protocols: CANopen, Profibus, IQAN, J1939.



Worldwide radio capabilities

Worldwide compatible multiband radio. Possibility of full-duplex communication.

Easily customi-

zable via EEPROM. Possibility of choosing the more suitable for each application. Multiband (400-900MHz) + 2,4 GHz



Inclinometer

Used to detect an unusual, high transmitter angle. It allows a number of intervention modes:

- Activate the transmitter buzzer.
- Disable all radio remote functions or only those considered necessary.



Tether connection

Tether connection between the transmitter and receiver as an alternative to radio connection. In the



event that radio control is not permitted or there are no charged batteries, the radio remote can be used with a wired connection between the transmitter and receiver. If a wired connection is used, the transmitter is powered by the receiver.

Customising tools

Several customising tools are available for our equipment:



- TM70Config: configuration software for complete IKUSI equipment. This tool is available to the official network of IKUSI dealers, all of whom are highly trained and qualified to provide a close and efficient service to customers.
- EEPROM recorder: tool for recording removable memories of IKUSI equipment; also offers the possibility of setting basic parameters.
- Remote settings: analogue input/output calibration tool for the installation.





● Distributors
● Subsidiaries



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