

LATEST GENERATION OF SMART TERMINALS FOR REMOTE WIRELESS CONTROL OF EQUIPMENT



RADIO AND SAFETY ADAPTED TO THE PILOTING NEEDS OF VARIOUS INDUSTRIAL APPLICATIONS.

A new generation has arrived integrating major innovations.

The solutions proposed meet the requirements of application markets, which have over time become JAY Electronique's specialization.

















INDUSTRIAL LIFTING & HANDLING

WASTE PROCESSING EQUIPMENT

INDUSTRIAL VEHICLES

PUBLIC WORKS AND QUARRY EQUIPMENT

INDUSTRIAL EQUIPMENT

FARMING AND FOREST MANAGEMENT EQUIPMENT

MAN LIFTING & TRANSPORT EQUIPMENT

INFRASTRUCTURE EQUIPMENT

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MANY SOLUTIONS DEVELOPED FOR THE FOLLOWING APPLICATION MARKETS :



radi crane

Overhead conveyor Overhead travelling crane



radi

Brush cutter Brush grinder and chipper Iron and steel scrap press Water treatment equipment Pressure cleaner, vacuum cleaner and air gun



radi drive

Transport of bulk and dried food Bulk bin loading/unloading arm Sewer hydrocleaning vehicle Special transport trailers



radi build

Tower crane Self-driven pump, belt, concrete mixer Crusher and materials sifter Demolition machine / robot Drilling, perforation and slicing machinery Coal or rock cutters



radi)safe

Automated storage AGV Self-propelled handling Adjustment on an automated machine Manual control machine

Interventions on dangerous equipment



≻ radi))farm

Forestry timber cross-cutting and hauling Wine pump

radi ∂lift

Lift Escalator Permanent building maintenance platforms Ski lifts



radi motion

Waterway bridge Port crane or conveyor belt Gas, oil and cereals loading arm Airport equipment Lighting and handling of stage sets Railway equipment































Due to the wide range of areas in which radio remote controls are used, your radio remote control needs to be perfectly suited to your needs.

our solutions have been thought out to meet your requirements, with options and variants dedicated to your activity,

and give you the autonomy setting for your application through iDialog software.

ERGONOMIC

Very special care has been taken in the design and ergonomics of our solutions to ensure rugged products providing maximum comfort in use day after day.

JAY's remote control buttons provide optimum touch sensitivity

and are sized to allow the operator to easily use the radio remote control even when wearing gloves.

The buttons are laid out

Safety is at the heart of our

to prevent the operator from mistakenly pressing two buttons at the same time.

SAFETY

to EN ISO 13849).



 concept. So, safir product line has a certified stop «SIL 3» per EN 61508 and «PL e» per EN ISO 13849, representing the highest level of safety.
 Different options are available to enhance the safety of those applications requiring it (infrared startup, action zone limitation, validation buttons, use in ATEX area, function buttons SIL 2 according to EN 61508 and PL d according

> Access to the radio remote control and certain functions can be limited to authorised operators by password (PIN codes).

Most of our products have a CE type examination certificate issued by a notified body.

RUGGED

Designed to work under the toughest conditions, our products are built and sized to be extra-rugged. Specially designed seals and protective foams ensure the highest level of strength and tightness.

EASY TO MAINTAIN

By the modular architecture of our systems, maintenance is facilitated to allow reducedcost repairs.

To ensure fast diagnostics and preventive maintenance on the radio control system, fault isolation is achieved easily and efficiently by an indication on the display or by connecting to a PC computer on which iDialog software has been installed (supplied with order). Also, this software allows you to change a setting.



The simple, secure match-up between the operator module and

the transceiver makes it easy and fast to replace one of the two components in the event of a failure.

SCREEN

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+∎

As a standard feature on last generation solutions, the backlit, anti-reflection, shock-proof, scratch-proof screen displays :

о на па на Па	ightarrow the battery charge level
CRANE nb.1	ightarrow the behaviour of the radio link
Mode 1 Load : 1,56T	→ the name of the equipment remote-controlled → feedback from the equipment controlled and operating alarms (weight of load, overload,
Slow Fast	limit switches)
Down Up	ightarrow fault diagnostics.
Rot.Left Rot.Right	
	Sophisticated, intuitive and guided navigation with menus allowing you to :
<u>Energγ sa∨ing</u>	\rightarrow configure the application
Function : Enable	→ integrate a large number of functions
Duration : 30	ightarrow monitor a specific part of the equipment.
	Customisable
Unit : second	
Previous	Each product comes with iDialog software to allow you to

Each product comes with iDialog software to allow you to customize the display, logos and pictograms which appear on the screen.

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Beta



Compact, easy to handle, flexible Operator module 2 or 6 function buttons + 2 navigation buttons

- + start/validation + Stop
- 3 different button types available
- IP65 tightness Operator module
- Integrated or Plug-in rechargeable battery
- Operator module support charger Safety stop PL e EN ISO 13849 and SIL 3 EN 61508
- Bidirectional communication 64 frequencies in 433-434MHz
- 12 frequencies in 869MHz
- 64 frequencies in 911-918MHz
- Many options available :
- infrared,
- vibrator...



Robust, Ergonomic, Secure Operator module

- 6 or 10 function buttons + 2 navigation buttons
- + start/validation + stop
- 3 different button types available
- IP65 tightness Operator module
- Plug-in rechargeable battery

Operator module support charger Function buttons designed to SIL 2 per EN 61508 and PL d per EN ISO 13849 Safety stop PL e EN ISO 13849 and SIL 3 EN 61508

- Bidirectional communication
- 64 frequencies in 433-434MHz
- 12 frequencies in 869MHz 64 frequencies in 911-918MHz
- Many options available :
- infrared,
- vibrator...



P004EN 3

Compact, Ergonomic Operator module

- 1 or 2 joysticks + 4 or 6 function buttons
- + 2 navigation buttons + start/validation + stop
- 6 different button types available
- IP65 tightness Operator module
- Plug-in rechargeable battery Safety stop PL e EN ISO 13849 and SIL 3 EN 61508
- Bidirectional communication
- 64 frequencies in 433-434MHz
- 12 frequencies in 869MHz
- 64 frequencies in 911-918MHz Many options available :
- recovery control by cable link,
- infrared,
- vibrator...



Modular, multifunction Operator module

- 2, 3 joysticks or 6 levers + 4 to 16 function buttons
- + 2 navigation buttons + start/validation + stop
- 6 different button types available IP65 tightness Operator module
- Plug-in rechargeable battery
- Safety stop PL e EN ISO 13849 and SIL 3 EN 61508
- Bidirectional communication
- 64 frequencies in 433-434MHz
- 12 frequencies in 869MHz
- 64 frequencies in 911-918MHz
- Many options available :
- recovery control by cable link,
- infrared, vibrator...



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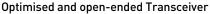




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Communicating and compact Transceiver

- 6 transistor outputs On/Off or PWM type
- 2 analog outputs
- 2 logic inputs
- 1 analog input
- 1 RTU slave RS485 Modbus interface
- 1 CANopen interface
- IP65 tightness
- Safety stop PL e EN ISO 13849 and SIL 3 EN 61508
- **Bidirectional communication**
- 64 frequencies in 433-434MHz
- 12 frequencies in 869MHz
- 64 frequencies in 911-918MHz
- Many options available :
- external antenna,
- infrared,
- synchronisation of equipment...



12 function relays + 1 «On» relay + 2 safety relays IP65 tightness

Safety stop PL e EN ISO 13849 and SIL 3 EN 61508 Bidirectional communication 64 frequencies in 433-434MHz 12 frequencies in 869MHz

- 64 frequencies in 911-918MHz
- Many options available :
- 1 board with : 2 logical inputs
 - 1 analog input
 - 1 analog output
 - 1 RTU slave RS485 Modbus interface
- infrared
- synchronisation of equipment
- integrated horn...



Communicating and compact Transceiver

- 1 logic input
- 2 PL c per EN 13849 relay outputs
- 1 RTU slave RS485 Modbus interface
- 1 CANopen interface

IP65 tightness

Safety stop PL e EN ISO 13849 and SIL 3 EN 61508

- Bidirectional communication
- 64 frequencies in 433-434MHz
- 12 frequencies in 869MHz
- 64 frequencies in 911-918MHz

Many communication bus network options :

- RS485 PROFIBUS / PROFINET
- RS485 DEVICENET
- Real-time deterministic Ethernet POWERLINK
 POWERLINK industrial network
- Ethernet/IP
- EtherCAT EtherCAT
- Modbus TCP/IP
- Other options :
- infrared.
- synchronisation of equipment,
- recovery control by cable link...
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Modular and multifunction Transceiver

- 2 function relays + 2 safety relays
- 1 logic input
- 1 analog input
- 1 RTU slave RS485 Modbus interface
- IP65 tightness

Safety stop PL e EN ISO 13849 and SIL 3 EN 61508

- **Bidirectional communication**
- 64 frequencies in 433-434MHz
- 12 frequencies in 869MHz
- 64 frequencies in 911-918MHz
- Many options available :
- Boards (3 slots available on mainboard) :
 - board with 12 function relays
 - board with 12 logic inputs + 2 analog inputs
 - board with 6 analog outputs + 1 bypass output
 - board with CANopen interface
- recovery control by cable link,
- infrared,
- synchronisation of equipment...





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€ €0081 II 1 G D Ex ia IIB T4 or 145°C Ga (1) Ex ia IIIC T135°C or T145°C Da (1) II 2 G D Ex ia IIC T4 or 145°C Gb (1) Ex ia IIIC T135°C or T145°C Db (1) IM1 Fx ia IM2 Ex ia I Ma LCIE 14 ATEX 3055 X IECEx LCIE 14.0049 X

C (0081(**x**) II 1 G D Ex ia IIB T4 or 145°C Ga (1) Ex ia IIIC T135°C or T145°C Da (1)

II 2 G D Ex ia IIC T4 or 145°C Gb (1) Ex ia IIIC T135°C or T145°C Db (1)

IM1

Ex ia I Ma

LCIE 15 ATEX 3055 X IECEx LCIE 15.0045 X

Beta ATEX IECEX

Compact, easy to handle, flexible Operator module

2 or 6 function buttons + 2 navigation buttons + start/validation + stop 3 different button types available IP65 tightness Operator module Integrated or Plug-in rechargeable battery Safety stop PL e EN ISO 13849 and SIL 3 EN 61508 Bidirectional communication 64 frequencies in 433-434MHz 12 frequencies in 869MHz 64 frequencies in 911-918MHz Many options available : • buzzer...



C €0081 II 1 G D Ex ia IIB T4 or 145°C Ga (1) Ex ia IIIC T135°C or T145°C Da (1) II 2G D Ex ia IIC T4 or 145°C Gb (1) Ex ia IIC T135°C or T145°C Db (1) IM1

Ex ia I Ma LCIE 15 ATEX 3058 X IECEx LCIE 15.0047 X With cable link option : C €0081(Ex) II 1 G D Ex ia IIB T4 or 145°C Ga (1) Ex ia IIIC T135°C or T145°C Da (1) IM1 Ex ia IIIC T135°C or T145°C Da (1)

IMI Ex ia I Ma Ui : 8V; Pi : 310mW; Ci : 96.2µF; Li : 0.54µH; LCIE 15 ATEX 3058 X IECEx LCIE 15.0047 X

C €0081(£x) II 1 G D Ex ia IIB T4 or 145°C Ga (1) Ex ia IIIC T135°C or T145°C Da (1) I MI Ex ia I Ma LCIE 14 ATEX 3014 X IECEX LCIE 14.0015 X With cable link option :

€ €0081(5x) II 1 G D Ex ia IIB T4 or 145°C Ga (1) Ex ia IIIC T135°C or T145°C Da (1) IM1

Ex ia I Ma Ui: 5.9V; Ii: 210mA; Pi: 310mW; Ci: 96.2µF; Li: 0.54µH LCIE 14 ATEX 3014 X IECEX LCIE 14.0015 X

[1] Temperature classes depending on Tamb: $-20^{\circ}C \leq Tamb \leq +40^{\circ}C$, temperature classes are T4 for gas and T135°C for dust. $+40^{\circ}C \leq Tamb \leq +50^{\circ}C$, temperature classes are 145°C for gas and T145°C for dust.



Robust, Ergonomic, Secure Operator module 6 or 10 function buttons + 2 navigation buttons + start/validation + stop 3 different button types available IP65 tightness Operator module Plug-in rechargeable battery Function buttons designed to SIL 2 per EN 61508 and PL d per EN ISO 13849 Safety stop PL e EN ISO 13849 and SIL 3 EN 61508 **Bidirectional communication** 64 frequencies in 433-434MHz 12 frequencies in 869MHz 64 frequencies in 911-918MHz



Compact, Ergonomic Operator module

1 or 2 joysticks + 4 or 6 function buttons + 2 navigation buttons + start/validation + stop 6 different button types available IP65 tightness Operator module Plug-in rechargeable battery Safety stop PL e EN ISO 13849 and SIL 3 EN 61508 **Bidirectional communication** 64 frequencies in 433-434MHz 12 frequencies in 869MHz 64 frequencies in 911-918MHz Many options available : recovery control by cable link...

Moka ATEX IECEX

Modular, multifunction Operator module

2, 3 joysticks or 6 levers + 4 to 16 function buttons + 2 navigation buttons + start/validation + stop 6 different button types available IP65 tightness Operator module Plug-in rechargeable battery Safety stop PL e EN ISO 13849 and SIL 3 EN 61508 Bidirectional communication 64 frequencies in 433-434MHz 12 frequencies in 869MHz 64 frequencies in 911-918MHz Many options available : recovery control by cable link...











€ €0081 Ex d IIB T6 Gb Ex tb IIIC T85°C Db LCIE 15 ATEX 3023 X IECEx LCIE 15.0025 X

ElioATEX IECEX

Optimised and open-ended Transceiver

12 function relays + 1 «On» relay + 2 safety relays IP66 tightness

Safety stop PL e EN ISO 13849 and SIL 3 EN 61508 Bidirectional communication

- 64 frequencies in 433-434MHz
- 12 frequencies in 869MHz
- 64 frequencies in 911-918MHz

Many options available :

- 1 board with : 2 logical inputs
 - 1 analog input
 - 1 analog output
 - 1 RTU slave RS485 Modbus interface
- synchronisation of equipment



€ €0081 II 2 GD Ex d IIB T6 Gb Ex tb IIIC T85°C Db Um <250 VAC LCIE 14 ATEX 3005 X IECEX LCIE 14.0014 X

With cable link option :

C € 0081(\bigcirc) II 2 (1) GD Ex d [ia Ga] IIB T6 Gb Ex tb [ia Ga] IIIC T85°C Db Um ≤125 VAC Uo : 5.9V; Io : 210mA, Po : 310mW Co : 1000µF; Lo : 3.22mH, Lo/Ro : 450µH/Ω LCIE 14 ATEX 3005 X IECEX LCIE 14.0014 X



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P013EN

Modular and multifunction Transceiver

- 2 function relays + 2 safety relays
 1 logic input
 1 analog input
 1 RTU slave RS485 Modbus interface
 IP66 tightness
 Safety stop PL e EN ISO 13849 and SIL 3 EN 61508
 Bidirectional communication
 64 frequencies in 433-434MHz
 12 frequencies in 869MHz
 64 frequencies in 911-918MHz
 Many options available :
 Boards (3 slots available on mainboard) :

 board with 12 function relays
 board with 12 logic inputs + 2 analog inputs
 - board with 6 analog outputs + 1 bypass output
 - board with CANopen interface
- recovery control by cable link,
- synchronisation of equipment...





Compact industrial remote control 4 function buttons + start + stop 5 different button types available

Electronic key

Light-weight, compact transmitter IP65 tightness, protective foams Integrated rechargeable battery Transmitter support charger Safety stop PL d EN ISO 13849 6 function relays + 1 «On» relay + 2 safety relays

64 frequéncies in 433-434MHz Infrared start-up option

Secure active radio repeater PL e EN ISO 13849 and SIL 3 EN 61508 IP65 tightness Compatibility with UR, UD, RS Series 64 frequencies in 433-434MHz

L

E330

P009EN

Simple industrial remote control

2, 4, 6, 8, 12 or 16 function buttons Versions with start/stop buttons Single step push buttons IP65 tightness transmitters and receivers Standard battery or rechargeable battery Transmitter support charger 2, 4, 8 or 16 +1 relays 1 or 18 frequencies in 433-434MHz Programmable operating mode



Radio logical signal transfers 8 logical signals IP65 tightness housings 4 or 8 relays 18 frequencies in 433-434MHz Programmable operating mode

E780



L E730

Wireless emergency stop system

4 function buttons + Start/Stop Light-weight, compact and ergonomic transmitter IP65 tightness, protective foams Integrated rechargeable battery Charger support Safety stop PL e EN ISO 13849 and SIL 3 EN 61508 6 static outputs + 2 safety relays 64 frequencies in 433-434MHz Infrared start-up option

gency stop

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Modular industrial remote control

IC-l

6, 8 or 10 function buttons + start + stop 6 different button types available Electronic key IP65 tightness transmitter and receivers Plug-in rechargeable battery Safety stop PL d EN ISO 13849 6, 12 or 18 function relays + 1 «On» relays + 2 safety relays 64 frequencies in 433-434MHz 12 frequencies in 869MHz 64 frequencies in 911-918MHz Infrared start-up option Special functions



Wireless safety trans-L mission system E780

Wireless safety logic signal transmission system 10 logical signals + 1 safety signal PL e EN ISO 13849 and SIL 3 EN 61508 DIN rail housings 64 frequencies in 433-434MHz Infrared start-up option



Wireless enabling handle E690 3

Wireless enabling handle

4 function buttons + trigger with 2 or 3 positions Light-weight, compact and ergonomic transmitter IP54 tightness, protective foams Integrated rechargeable battery Charger support Safety stop PL e EN ISO 13849 and SIL 3 EN 61508 6 static outputs + 2 safety relays 64 frequencies in 433-434MHz Infrared start-up option