# Industrial and Multifunction radio remote controls

### Typical applications:

### Industrial equipment

- Cardboard box folding and gluing machines
- Packaging machines
- Wrapping machines
- Dynamic storage
- Conveyors
- Ovens
- Book stitching machines
- Machine control in stepped mode
- Small lifting equipment
- Lift tables

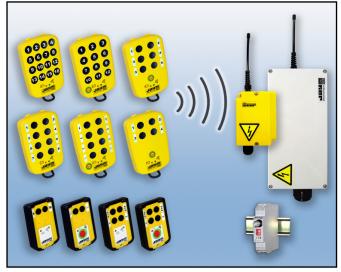
#### Industrial vehicles

- Milk transport
- Recovery vehicles
- Impoundment vehicles
- Clean-up vehicles
- Vehicle carriers
- **Tailgates**
- Skips

### Farm equipment

- Wine making pumps
- Liquid manure tanks
- Fruit grading machines
- Sprinkling systems
- Debarking machines
- Logging equipment
- Mangers and livestock feeding equipment

# rion Series



# **Building industry equipment**

- Freight elevators
- Concrete mats
- Concrete plants
- Hoppers
- Quarry conveyors
- Asphalt spreader

### Infrastructure equipment

- Automatic industrial doors
- Industrial gates
- Industrial drop gates
- Staging equipment
- Signalling
- Industrial lighting
- Industrial production operator calls
- Traffic lights on industrial site
- Sluice gates
- Industrial pressure cleaners

# 1- Description

### **■■■** A radio remote control provides significant advantages:

- Large freedom of movement
- Easy to use
- Precise, quality manoeuvres
- Visibility
- Productivity

#### Jay Electronique's new Orion radio remote control line is designed to satisfy the needs of a wide range of industrial and multifunction applications.

The Orion line comprises a broad range of transmitters and receivers, providing different types and numbers of functions, satisfying a variety of requirements.

#### This product line also incorporates numerous features and significant technological breakthroughs:

- European frequency band of 433-434 MHz with 18 possible frequencies
- FM radio link
- Simultaneous commands
- Programming of different functions by jumpers in receiver, or using buttons on transmitter, thus enabling numerous possibilities:
  - programming of identity code,

  - association of transmitter(s) / receiver(s),association of transmitter button(s) / receiver(s) relays,
  - programming of operating mode,

  - programming of command interlocking functions,
     programming of radiofrequency channel (on certain models),
  - programming of «standby function» time (on certain models),
  - programming of «radio power» (on certain models),
- compact, light-weight, watertight and sturdy transmitters and receivers.
- mechanical protection for buttons
- «on/off» button (on some models)

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#### Compliance with European directives:

- Radio equipment 2014/53/EU (low voltage, EM compatibility, radiofrequency spectrum)



# 1- Description (cont.)

## Operating reliabilty

**Orion** Series features designed to ensure operating reliability:

- A radio link that is non directional and insensitive to obstacles, thus enhancing the availability of the system.
- A momentary radio link to reduce the risks of interferences by other systems operating on the same band of frequencies.
- Individually coded transmitter+receiver sets (user programmable).
- A response time compatible with most of the equipment controlled
- Possibility for electrical interlocking of conflicting commands (for example: up/down) by setting receiver outputs to «break» state (programmable by user).
- ◆ Hamming distance (minimum number of bits that differ between 2 messages that are different) of 4.
- ◆ An «on/stop command» function available with transmitters equipped with «on/off» button and receivers equipped with «on» relay. It is necessary to ensure that the safety level of this product is acceptable for the risk level of the controlled equipment in the application, and if necessary, verify the presence of a wired emergency stop button on the equipment.
- ◆ A receiver passive stop function in the event of radio jamming (for a duration of around 1 second) when a button on the transmitter is pressed and held.

### **Button/relay operating modes**

There are three operating modes (programmable by user):

#### ◆ «Continuous make contact» mode:

The receiver relay remains closed so long as the corresponding control button on the transmitter remains pressed.

#### «Continuous break contact» mode:

The receiver relay remains open so long as the corresponding control button on the transmitter remains pressed.

### ♦ «Bistable» mode:

The receiver relay is closed the first time the corresponding control button on the transmitter is pressed, and opens on the second time the control button is pressed.

If a system is used in continuous mode with the control buttons maintained pressed and the operator moving about, transmission interruptions can occur due to the dispersion and propagation of radiowaves which must be taken into account in accordance with the application.

## Installation of other radio systems

To avoid any risk of extended radio jamming, be sure not to install or use, in the vicinity and at the same time, any other radio system with continuous transmissions in a frequency range representing +/- 100 kHz with respect to the product's operating frequency.

The distance between the interfering transmitter and the product will also impact the possibility of interference occurring. Be sure to keep the interfering transmitter as far away as possible from the product.

# Operating with multi-receiver selection

It is possible to select the receiver you want to control with transmitter equipped with  $\verb| |$  won/off| button + 4 function buttons minimum .

# Special features of transmitters equipped with «on/off» button

- The «on/off» button is used to switch on and off the transmitter, thus avoiding any unintentional actions on the function buttons.
- This button also controls the receiver «on» relay (depending on model), thus doubling the command interruption feature.
- Transmitters equipped with this button have three functions which can be configured by the user:
  - «Standby» time delay function: time programmable for 4mn, 15mn, 60mn, 30s (only with OREV and OREL with «on/off» button) or deactivation of function. If none of the buttons are pressed while the transmitter is on, it automatically shuts down at the end of the programmed time delay period. This causes the receiver relay to go to the «relaxed» state.
  - Modification of radio working frequency: The user can choose and program a frequency among 18 radio channels. Once the frequency has been selected, the transmitter automatically sends a frequency change command to the receiver.
  - Changing the radio power (only with transmitter OREV): The user can choose between 5 levels of transmitter radio power to adjust the radio power to limit or adapt the range in accordance with the application and the desired endurance.

### List of available radio channels:

«ORION Series» Channel number	Frequency MHz
01	433,100
02	433,200
03	433,300
04	433,400
05	433,500
06	433,600

«ORION Series» Channel number	Frequency MHz	
07	433,700	
08	433,800	
09	433,900	
10	434,000	
11	434,100	
12	434,200	

«ORION Series» Channel number	Frequency MHz
13	434,300
14	434,400
15	434,500
16	434,600
17	434,700
18	434,740

The transmitters and receivers are supplied programmed in their standard configuration on channel No. 17 (434.700 MHz) The radio channel can only be modified with transmitters equipped with an «on/off» button.

# 2- Transmitter(s) and receiver(s) associations

All transmitter(s)/receiver(s) associations are possible by the user.

2.1- Association of 1 transmitter to 1 receiver, without «on/stop command» function: ▼ ✓ ℝ

Number	Transmitter		Receiver			
of func- tions required	Industrial	Multifunction	DIN Rail	Industrial small model	Industrial  large model	
1						
2	•		•	•		
3						
4	•			•		
5						
6						
7						
8		•			•	
9						
10						
11						
12						
13						
14						
15						
16	·	•			•	

<sup>□ =</sup> Possible association

# 2.2- Association of 1 transmitter to 1 receiver, with «on/stop command» function: □ ✓ □ □

Number of	Transmitter		Receiver		
functions required	Industrial	Multifunction	DIN Rail	Industrial small model	Industrial — large model
1 + «on/stop command»					
2 + «on/stop command»	•		•		
3 + «on/stop command»					
4 + «on/stop command»	•	•		•	
5 + «on/stop command»					
6 + «on/stop command»					
7 + «on/stop command»					
8 + «on/stop command»		•			•
9 + «on/stop command»					
10 + «on/stop command»					
11 + «on/stop command»					
12 + «on/stop command»					
13 + «on/stop command»					
14 + «on/stop command»					
15 + «on/stop command»					
16 + «on/stop command»		•			•

 $<sup>\</sup>square$  = Possible association

# 2.3- Association of N transmitter(s) to M receivers:



Any number of transmitters ORE can be associated to any number of receivers ORR depending on the needs of the application. Each relay in the ORR receivers can be associated independently to any button of a transmitter by a simple «learning» procedure.

<sup>=</sup> Optimum association of number of buttons on transmitter and number of relays available in receiver.

 <sup>=</sup> Optimum association of number of buttons on transmitter and number of relays available in receiver.

# 3- Transmitter technical characteristics

# 3.1- Characteristics common to 2 transmitter versions (industrial and multifunction)

Operating mode	Simultaneous commands		
Transmission module (1)	18 frequencies per device		
Transmission frequency (1)	UHF 433,100 MHz to 434,740 MHz		
Transmission power (1)	< 1 mW (license not required) built-in antenna 5 adjustable power levels are available on transmitter OREV		
Average range (2)	150 m in unobstructed area 50 m in typical industrial environment (possibility of increasing or limiting the radio range on OREV transmitter : 5 adjustable power levels)		
Modulation	FM		
Radio link	Momentary (when command button pressed)		
Identity code	256 codes programmable by microswitches on transmitter OREL 4096 codes programmable by microswitches + internal button on transmitter OREV		
Operating temperature range	-20° C to + 50° C		
Storage temperature range	-30° C to + 70° C		
Battery or accumulator charge level indication	2 indication levels by a red indicator light:  Red ind. light off = batteries or accumulators charge is > 10%  Red ind. light flashes fast = batteries must be replaced or accumulators must be recharged.		
Other indication	Model without «on/off» button: a green indicator light comes on and flashes while the function button is pressed.  Model with «on/off» button: a green indicator light comes on and flashes when the transmitter keypad is active.		
Fastening	- Carrying clip (optional accessory, see chapter 8) - Fixation support (optional accessory, see chapter 8)		

<sup>(1) =</sup> Supplied programmed on channel No. 17 in standard configuration.

# 3.2- Characteristics specific to each version

	Industrial OREV	Multifunction OREL	
Housing	ABS	ABS	
Housing color	Yellow	Yellow	
Degree of protection	IP65	IP65	
Weight (with batteries or accumulators)	105 g	160 g	
Number of command buttons	2 or 4	4, 6, 8, 12 or 16	
Power supply	2 x 1,5V batteries type AAA (3)	3 x 1,5V batteries (type AAA) or 3 x accumulators (type AAA) (4)	
Autonomy	1 year (for a typical use of 50 times per day with impulses of 5 seconds)	When supplied with batteries: same time industrials transmitters When supplied with accumulators: 42h for 50 % use time	
Charging time (if supplied with accumulators)		< 3 h	
Charging temperature range (if supplied with accumulators)		0°C to +40°C	
Safety	1 «on/off» button (depending on model)	1 «on/off» button (depending on model)	
Mechanical protection	Built-in protected foam	Protective foam, reference : <b>OWE30</b> (optional accessory)	
Storage (2) - Control of the CAAAA bettering	Case, reference : <b>OWE15</b> (optional accessory, see chapter 8)	Case, reference : <b>UBWE34</b> (optional accessory, see chapter 8)	

<sup>(3) =</sup> Supplied with 2 AAA batteries.

REMINDER: The transmitters radio channel can only be changed on transmitters equipped with an «on/off» button.

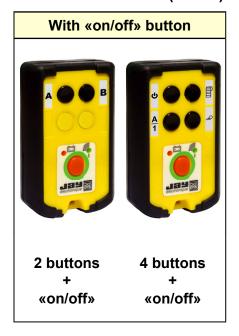
<sup>(2) =</sup> The range varies according to environment conditions, the position of reception antenna and transmitter orientation (the range is decreased in case of metal obstacles such as: metal frameworks, walls etc.)

<sup>(4) =</sup> Supplied with 3 AAA batteries; can be used with 3 AAA accumulators.

These transmitters, when equipped with AAA accumulators, can be recharged directly on an **ORCL•** charger support. The charger support must be ordered separately.

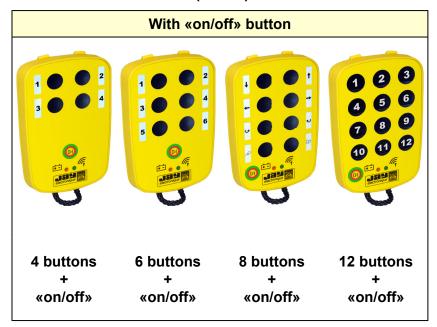
## 3.3- Product ranges

### «Industrial» models (OREV):



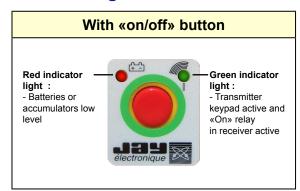


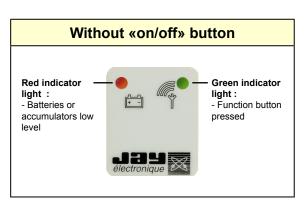
### «Multifonction» models (OREL):





# 3.4- Indicator light functions





# 4- Receiver technical charateristics

# 4.1- Characteristics common to 3 receiver versions (DIN rail, small and large industrial model)

Operating temperature range	-20°C to +50°C		
Storage temperature range	-30°C to +70°C		
Tuner (1)	UHF 433,100 MHZ to 434,740 MHz		
Sensitivity	< 2µV		
Identity code	By a «learning» procedure, the receiver relays can memorize the identity codes of the associated transmitters		
Protection of power supply	Against overcurrents : 1 fuse on phase (ORRS and ORRA).     Against polarity inversions in the case of 12VDC power supply		
Outputs			
Type of command	by relay with 1 NO contact (1 NC or bistable contact possible by programming)		
min. / max. current	10 mA / 8A (50 mA recommended)		
max. voltage	250 VAC		
response time	50 ms		
Switching category	DC13 at 0,5 A / 24 VDC - AC15 at 3 A / 250VAC		
Operating mode	Continuous or bistable (by programming jumper or microswitch)		
Interlocking	Programmable by jumper or microswitch		
Additional function	1 «on» relay (controlled by transmitter «on/off» button - depending on transmitter model)		
1) = Supplied programmed on channel No. 17 in standard configuration			

<sup>(1) =</sup> Supplied programmed on channel No. 17 in standard configuration.

## 4.2- Characteristics specific to each version

	DIN Rail ORRD	Industrial small model ORRS		
Housing material	PC-GF	ABS	ABS	
Housing color	Grey	Yellow	Grey	
Degree of protection	IP 20	IP 65	IP 65	
Number of command outputs	3 or 2+1 (2)	2 or 4+1 (2)	8+1 (2) or 16+1 (2)	
Maximum weight	220 g	350 g	1200 g	
Maximum number of transmitter function buttons (3) being able to be learned by a function relay	10	10	4	
Number of relay outputs simultaneously controllable	2 function relays + 1 «On» relay	ORRS21 model 2 function relays ORRS42 model 4 function relays or 3 function relays + 1 «On» relay	All models 9 function relays or 8 function relays + 1 «On» relay	
Power supply  Voltage	12 VDC (-25%/+25%)	ORRSF model 12 VDC (9 to 20VDC) 24 VDC (20 to 75VDC) 48 VAC (+10%/-15%) ORRST model 115 VAC (+10/%-15%) ORRSU model 230 VAC (+10%/-15%)	ORRA4 model 12 VDC (9 to 20VDC) 24 VDC (20 to 28VDC) ORRAA model 24 VAC (+10%/-15%) 48 VAC (+10%/-15%) ORRAB model 115 VAC (+10%/-15%) 230 VAC (+10%/-15%)	
		180 mA for DC / 5 VA for AC 23 mA for 12 VDC / 350 mW for 24 VDC	260 mA for DC / 11 VA for AC 23 mA for 12 VDC / 350 mW for 24 VDC	
Mounting	Snap-on fastener on symetrical DIN rail EN 50 022	2 holes M4 exterior	4 holes M4 interior	
Cable entry			1 plastic cover: PG M16 (Ø 5 to 7 mm) 1 plastic cable gland: PG M32 (Ø 20 to 26 mm)	
Connection to equipment	By spring terminal junction blocks (for	cable 2,5 mm²)		
Indications  Power supply Radio reception «Programming» mode Per relay output  Antenna	1 yellow indicator light 1 red indicator light	1 green indicator light 1 green indicator light 1 red indicator light 1 red indicator light 1/2 ways fixed antenna (4) or internal (5)	1 green indicator light 1 green indicator light 1 red indicator light 1 red indicator light 1/2 wave fixed antenna (4) or internal (5)	
Recommended antenna(s)	External by Divo plug	1/2 wave fixed afficilia (4) of fifterfial (5)	I 1/2 wave inter antenna (4) or internal (3)	
if BNC plug (4), installation type :				
Inside confined enclosure, metallic	C Use remote antenna : VUA1***H, M or V			
Other cases	es ORRA and ORRS : VUA002A, VUA1***H, M or V ORRD : VUA1***H, M or V			

<sup>(2) = «</sup>on» relay (relay activated by transmitter models having a «on/off»button)

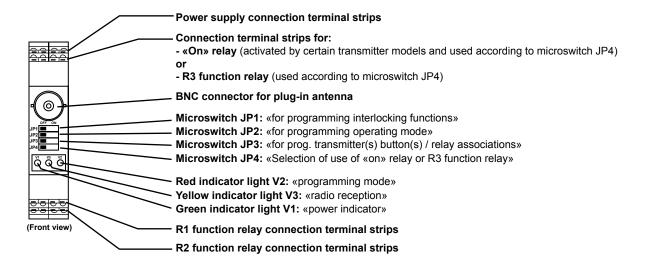
REMINDER: The transmitters radio channel can only be changed on the Orion transmitters equipped with an «on/off» button.

<sup>(3) =</sup> Different transmitter button numbers and/or different transmitter identity codes

<sup>(4) =</sup> Plug-in feature possible by BNC plug on industrial receivers, with kit **OWR01** 

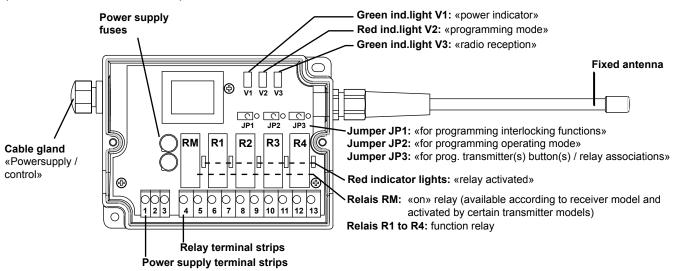
<sup>(5) =</sup> Antenna integration possible in industrial receiver housings, with kit OWR02 (delivered with the receivers). Beware, the range is divided by 2 in this case.

## **«DIN rail» version (ORRD)**



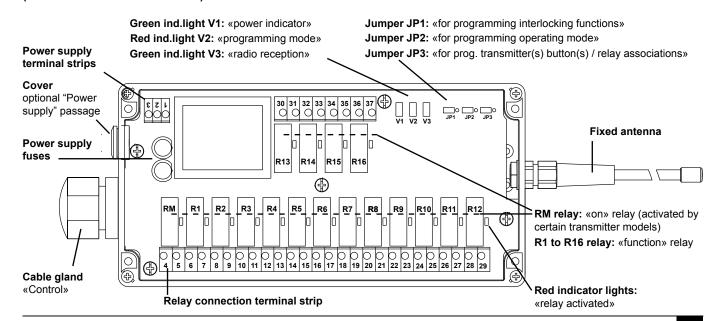
### «Industrial small model» version (ORRS)

(i.e.: ORRS42L1U model below)



## «Industrial large model» version (ORRA)

(i.e.: ORRAH2L1U model below)



**Orion Series** - E780 H-0916

## 5- Accessories

# 5.1 Technical characteristics of charger support units (for multifunction transmitters with accumulators)

Power supply	12/24 VDC or 230 VAC
Degree of protection	IP 20
Weight	400 g max.
Output	
Voltage	9 VDC
Max. current	300 mA
Storage temperature range	-30°C to +70°C
Charging temperature range	0°C to +40°C
Length of adapter cable / connector for multifunction transmitter	1,70m

Charger support 12-24VDC / 9VDC version (vehicle plug) Supplied with 3 accumulators

Charger support 230VAC / 9VDC version (EU, UK and US plugs) Supplied with 3 accumulators



Reference





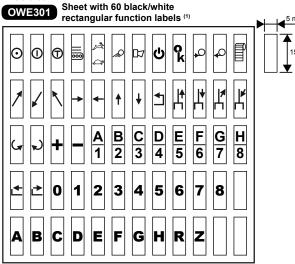
### 5.2 Orion transmitter function button labels

The various button functions are identified by means of adhesive labels placed in the recesses provided in the transmitter housing at each button location.

The labels are supplied in the form of sheets with the various labels you will need for your application. Simply choose the labels corresponding to your configuration.

Label sheet for industrial transmitters (all models) and multifunction transmitters (for 4, 6 and 8 button models).

Label sheet for multifunction (12 or 16 buttons) transmitters

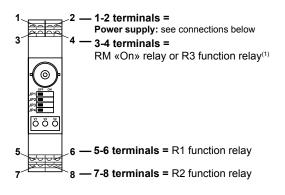


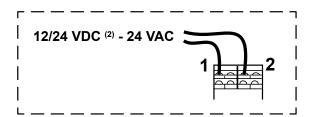
(1) = 1 kit is supplied with the corresponding transmitter.

# 6- Connection diagrams

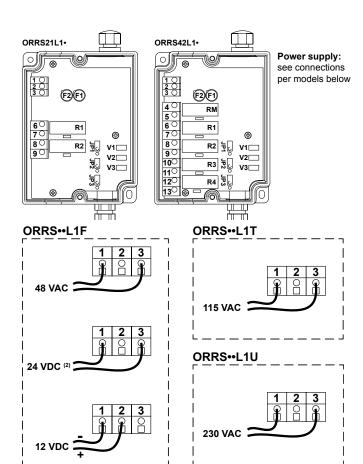
# 6.1 Connection diagram for DIN rail

# receiver model - ORRD

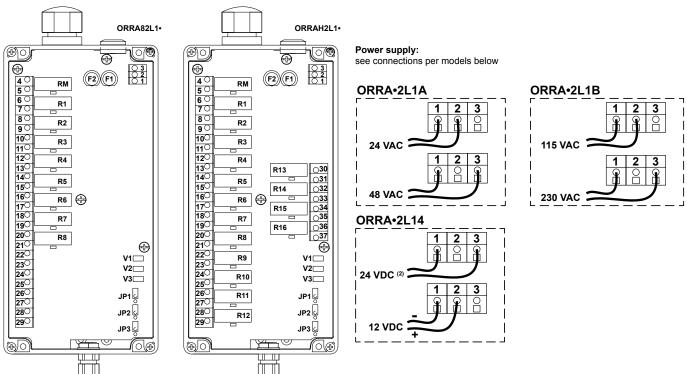




# 6.2 Connection diagram for Industrial receiver, small model - ORRS



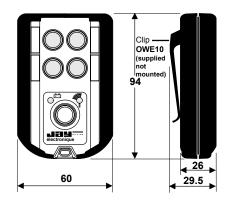
# 6.3 Connection diagram for Industrial receiver, large model - ORRA



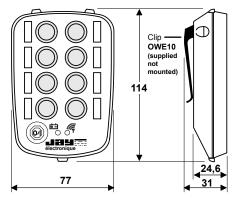
- (1) = The relay function can be selected by microswitch
- (2) = No polarity to be respected

# 7- Dimensions (mm)

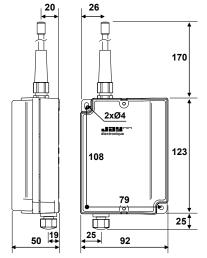
### 7.1 Industrial transmitters **OREV**



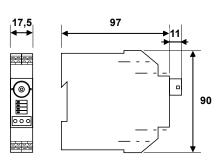
## 7.2 Multifunction transmitters OREL



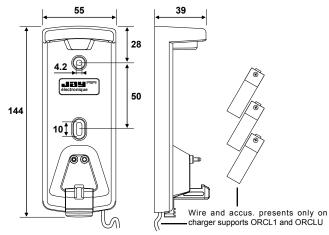
# 7.4 Industrial receivers «small model» ORRS



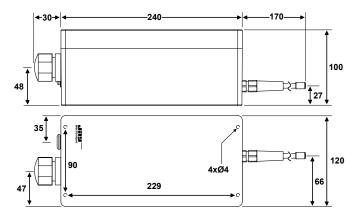
7.6 Receiver on DIN rail ORRD



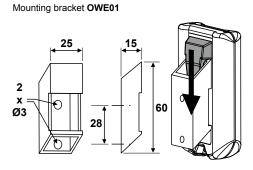
7.3 Wall supports **ORCL**Charger supports **ORCL**•



# 7.5 Industrial receivers «large model» ORRA



### 7.7 Accessories



Plug-in antennas (for receiver **ORRD** on DIN rail or for industrial receivers with kit **ref.: OWR01**), see chapter 8.2.1

# 8- Selection guide, references for ordering

### 8.1 Orion transmitters (1)

	<ul><li>Number of function buttons</li><li>Transmitter model</li></ul>				
	Industrial <sup>(2)</sup>	Industrial (2) + «on/off» button	Multifunction (3)	Multifunction (3) + «on/off» button	
2	OREV21SL1	OREV22SL1			
4	OREV41SL1	OREV42SL1		OREL42SL1	
6				OREL62SL1	
8			OREL81SL1	OREL82SL1	
12				ORELD2SL1	
16			ORELH1SL1		

<sup>(1) =</sup> Supplied programmed on channel No. 17 in standard configuration.

### **8.1.1 Accessories for Orion transmitters**

### Wall brackets and charger support units

Reference	Designation		
OWE01	Mounting support for industrial and multifunction transmitters equipped with carrying clip		
ORCL	Mounting support for multifunction transmitter		
ORCL1	12-24 VDC (vehicle connector) / 9 VDC charger support unit + 3 accumulators AAA type, for multifunction transmitters (OREL) with accumulators		
ORCLU	230 VAC / 9 VDC charger support unit + 3 accumulators AAA type (EU, UK and US plugs), for multifunction transmitters (OREL) with accumulators		

### Label sheets for function buttons

Reference	Designation	
OWE301	60 black/white rectangular function labels for industrial and multifunction transmitters (4, 6 or 8 buttons) (4)	
OWE403	96 black/white round labels for multifunction transmitters (12 or 16 buttons) <sup>(4)</sup>	

<sup>(4) = 1</sup> kit is supplied with the corresponding transmitter.

#### Miscellaneous accessories

Reference	Designation	Picture
OWE10	Carrying clip (on support ref.: OWE01, belt, pocket) (5)	see chapter 7.1
OWE20	Neck strap	
OWE15	Case for industrial transmitter (OREV) Leather and equipped with a carrying clip.	
OWE30	Protective foam for multifunction transmitter (OREL)	
UBWE34	Case for multifunction transmitter (OREL), equipped with a carrying clip.	

(5) = 1 clip (not mounted) is supplied with transmitters.

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REMINDER: The transmitters radio channel can only be changed on the ORE transmitters equipped with an «on/off» button.

<sup>(2) =</sup> Supplied with 2 AAA batteries.

<sup>(3) =</sup> Supplied with 3 AAA batteries; can be used with 3 AAA accumulators.

These transmitters, when equipped with AAA accumulators, can be recharged directly on an **ORCL•** charger support. The charger support must be ordered separately.

# 8- Selection guide, references for ordering (cont.)

#### 8.2 Orion receivers (1)

Number of function relays							
Receiver model and type of power supply							
<b>L</b>	DIN Rail 12 VDC 24 VDC 24VAC	Industrial small model 12 VDC 24 VDC 48 VAC	Industrial small model 115 VAC	Industrial small model 230 VAC	Industrial large model 12 VDC 24 VDC	Industrial large model 24 VAC 48 VAC	Industrial large model 115 VAC 230 VAC
		· ATT	· ATT	ATT			
2		ORRS21L1F	ORRS21L1T	ORRS21L1U			
2+1 <sup>(2)</sup>	ORRD22L1C						
3	UKKD22L1C						
4+1 <sup>(2)</sup>		ORRS42L1F	ORRS42L1T	ORRS42L1U			
8+1 <sup>(2)</sup>					ORRA82L14	ORRA82L1A	ORRA82L1B
16+1 <sup>(2)</sup>					ORRAH2L14	ORRAH2L1A	ORRAH2L1B

<sup>(1) =</sup> Supplied programmed on channel No. 17 in standard con guration.

REMINDER: The transmitters radio channel can only be changed on the ORE transmitters equipped with an «on/off» button.

#### 8.2.1 Accessories for Orion receivers

Reference	Designation	
OWR01	BNC plug-in antenna kit for receivers ORRA and ORRS (3)	
OWR02	Internal antenna kit for receivers ORRA and ORRS (4)	
OWR38	Fastening Kit for ORRS receiver by 2 magnetic contacts (installation on metal surface)	
UDWR38	Fastening Kit for ORRA receiver by 4 magnetic contacts (installation on metal surface)	
VUB060	90° BNC elbow for BNC antennas (3) (6)	

#### Antennas (5)

Reference	Designation	Picture	
VUA002A	Straight antenna, 1/2 wave, BNC	approximate length = 335mm	
VUA100AH	Through insulated remote antenna, 1/2 wave, with 0,5m BNC cable		
VUA102AH	Through insulated remote antenna, 1/2 wave, with 2m BNC cable		
VUA105AH	Through insulated remote antenna, 1/2 wave, with 5m BNC cable		
VUA110AH	Through insulated remote antenna, 1/2 wave, with 10m BNC cable	approximate length = 320mm	
VUA103AM	Insulated and magnetic remote antenna, 1/2 wave, with 3m BNC cable		
VUA105AM	Insulated and magnetic remote antenna, 1/2 wave, with 5m BNC cable	approximate length = 440mm (antenna to be mounted on a not grounded metal surface)	
VUA103AV	Through uninsulated remote antenna, 1/4 wave, with 3m BNC cable	A.	
VUA105AV	Through uninsulated remote antenna, 1/4 wave, with 5m BNC cable	approximate length = 180mm	

<sup>(3) =</sup> BNC antenna and BNC extension to be ordered separately.

The products presented in this document are subject to change. Product descriptions and characteristics are not contractually binding. Please go to our internet site **www.jay-electronique.com** to download the most recent updates to our documentation.

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<sup>(2) = «</sup>on» relay

<sup>(4) = 1</sup> kit is supplied with industrial receivers.

<sup>(5) =</sup> Except for the DIN rail model which comes with a BNC antenna connector as a standard feature, the other receiver models require the plug-in antenna kit Ref.: **OWR01** for use of an antenna or a plug-in antenna extension.

<sup>(6) =</sup> Not suitable for direct connection to antenna Ref.: VUA002A; in this case, use a remote antenna.