

# AIR SERIES

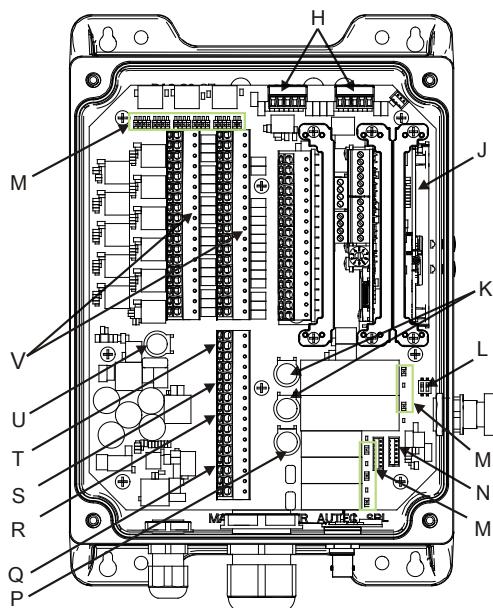
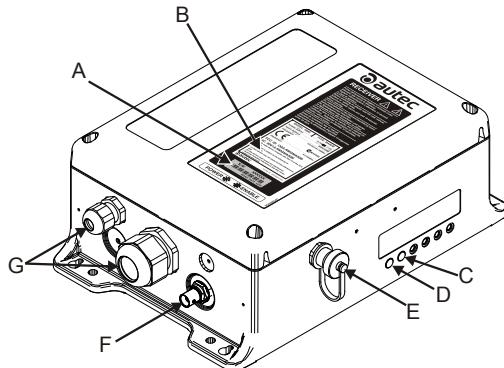
## Part D: receiving unit DCRM24 (RMG)



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## 1 Description

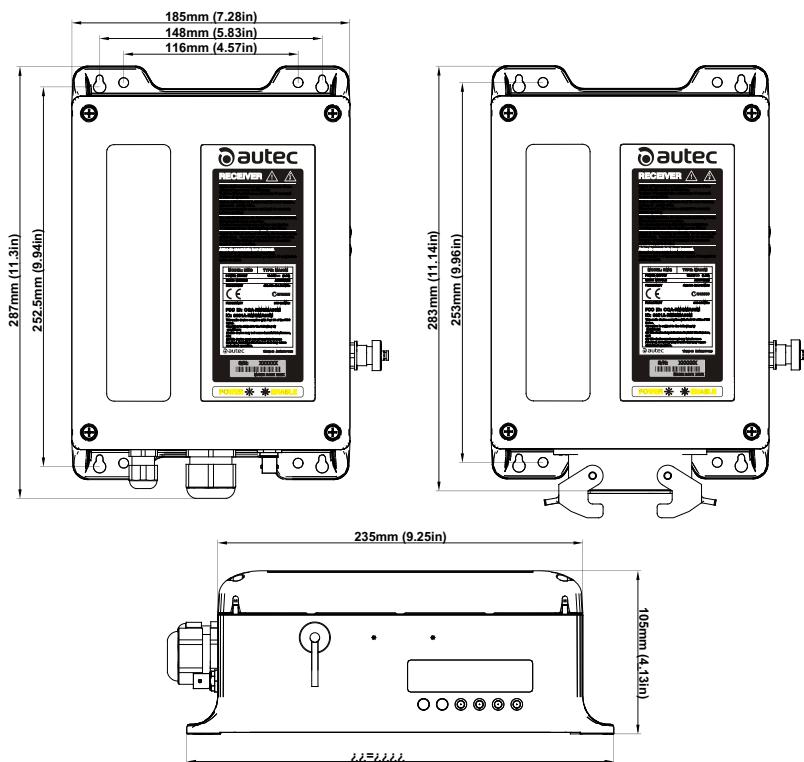


A	Identification plate
B	Technical data plate
C	ENABLE LED
D	POWER LED
E	Connector for cable control (optional)
F	BNC connector for external antenna kit (optional)
G	Cable gland or plug
H	Digital inputs
J	Electronic module and address key
K	STOP contacts protection fuses
L	DIP switches
M	Internal light signals
N	Connector for the cable control's wiring
P	SAFETY contacts protection fuse
Q	Outputs of relay commands
R	SAFETY output
S	STOP outputs
T	Connectors for power supply
U	Power supply protection fuse
V	Outputs of solid state commands

## 2 Technical data

Power supply .....	12-24V--- (1.2A)
Power supply protection fuse .....	3.15A T 250V (5x20mm)
Digital inputs voltage .....	12-24V---
Antenna .....	internal or dedicated
STOP contacts rated current .....	6A (30V---)
STOP contacts protection fuses .....	6A T 250V (5x20mm)
SAFETY contacts rated current .....	10A (30V---)
SAFETY contacts protection fuses .....	10A T 250V (5x20mm)
Rated current of outputs of solid state commands .....	4A (30V---)
Rated current of relay commands' outputs <sup>a</sup> .....	10A (30V---) <sup>b</sup>
Housing material .....	PA 6 (20%fg)
Protection degree .....	IP65 (NEMA 4)
Weight .....	2.2kg (4.9Lb)

- a. Command contacts' rated current for any optional card is provided in the technical data sheet.
- b. The rated current may be up to 10A only if both terminals are used for each contact. If the radio remote control has been wired by Autec, please refer to values provided in the technical data sheet.



### 3 Technical data sheet

The technical data sheet contains the wiring diagram showing the connection between the receiving unit and the machine. It also contains the transmitting unit configuration and shows the matching between commands sent and machine functions/movements.

Each technical data sheet must be filled in, checked and signed by the installer, who is responsible for a correct wiring.

A technical data sheet must always be kept together with this manual (always keep a copy of the technical data sheet when it is used for administrative purposes).

 <b>WARNING</b>	<b>The wiring of the receiving unit outputs must always reflect the wiring indicated in the technical data sheet.</b>
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### 4 Plates

#### 4.1 Plates on DCRM24 unit in a radio remote control

Plate	Position	Content
<b>radio remote control identification plate</b>	On the cover of the receiving unit.	Radio remote control serial number (S/N), bar code and manufacturing year.
<b>technical data plate</b>	On the cover of the receiving unit.	MODEL, TYPE and main receiving unit technical data, marking and possible radio remote control marks.

#### 4.2 Plates on DCRM24 unit in a Take & Release radio remote control

Plate	Position	Content
<b>radio remote control identification plate</b>	On the cover of the receiving unit.	Radio remote control serial number (S/N), bar code and manufacturing year.
<b>technical data plate</b>	On the cover of the receiving unit.	MODEL, TYPE and main receiving unit technical data, marking and possible radio remote control marks.

#### 4.3 Plates on DCRM24 unit in a Multi Units or Multi Receiver radio remote control

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Plate	Position	Content
radio remote control identification plate	On the cover of each receiving unit.	Radio remote control serial number (MULTI S/N), bar code and manufacturing year.
receiving unit identification plate	On the cover of each receiving unit.	The serial number of the receiving unit (S/N) and a bar code.
technical data plate	On the cover of each receiving unit.	MODEL, TYPE and main receiving unit technical data, marking and possible radio remote control marks.

## 5 Warnings for installation

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### 5.1 Wiring

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The following warnings complete and/or replace the corresponding information in the paragraph about part A.

 WARNING	<p><b>Outputs of solid state commands shall never be connected to a power supply positive or negative pole. Such connection could damage the outputs.</b></p> <p><b>A voltage in the range 12 to 24 V--- must always be applied to the power supply input of the solid state commands.</b></p> <p><b>Common wire related to diodes of solid state commands must be connected with the common of all the machine's recovery diodes. If that is not possible, connect it to the receiving unit's power supply negative.</b></p>
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## 6 Light signals

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### 6.1 POWER LED (green)

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The POWER LED indicates the status of the receiving unit.

The POWER LED...	Meaning
...is off	The receiving unit is not powered.
...is on	Receiving unit is powered.

### 6.2 ENABLE LED (green)

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The ENABLE LED indicates the status of the radio link.

The ENABLE LED ...	Meaning
... blinks once every 5 seconds	The receiving and transmitting unit do not communicate.
... blinks fast	The unit is ready to receive commands sent by the transmitting unit.

## 7 Operation

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### 7.1 Electronic module

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The electronic module contains the address key, where the radio remote control configuration data are also stored. The receiving unit cannot work without this address key.

### 7.2 DIP switches

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DIP switch 1 is used to set the frequency band.

DIP switch 2 shall always be set in the OFF position: do not modify it.

### 7.3 Internal light signals

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The activation of each relay on the mother board is signalled by an LED near the relay.

### 7.4 Command outputs

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The data sheet contains information regarding the correspondence between the commands sent by the transmitting unit and the related output enabled in the receiving unit.

## 8 Malfunction signalled by the receiving unit

Use the light signals on the receiving unit to identify the radio remote control malfunction. If the problem persists after the suggested solution has been carried out, contact the support service of the machine manufacturer.

Signals	Possible reason	Solutions
<b>The POWER LED is off.</b>	Wrong or no power supply.	Correctly plug in the connecting plug between the radio remote control and the machine.
		Make sure that power supply wires are correctly connected and that the power supply value is within the limits specified in the technical data.
		Check the power supply protection fuse and, if needed, replace it.
<b>The POWER LED is steady and the ENABLE LED blinks once every 5 seconds.</b>	The transmitting and receiving unit do not communicate.	Start up the radio remote control.
<b>The POWER LED is steady and the ENABLE LED blinks fast.</b>	The receiving unit does not activate the outputs of the commands sent.	Check that the outputs are correctly wired and that the commands sent activate the corresponding relays.  Check the protection fuses of the STOP contacts or of the SAFETY contacts and, if needed, replace them.

