

# INORÉA

## Automatismes & Industrie



### TECHNICAL SPECIFICATION SHEET REMOTELY PILOTAGE

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## 1. PRODUCT PRESENTATION

Composition:

- **1 frequency inverter VFR-091**
    - Single phase power supply 230V from 0,75KW to 5,5KW depending on the model

Or

  - Three phase power supply 380V from 0,75KW to 160KW depending on the model
- **1 emitter / receiver radio frequency:** type 2 axes, 2 directions



➤ **Single phase setup**

References	Designation
VFREM_2M_0K75	Inverter 0.75kW single phase 220V + wireless remote control
VFREM_2M_1K5	Inverter 1.5kW single phase 220V + wireless remote control
VFREM_2M_2K2	Inverter 2.2kW single phase 220V + wireless remote control
VFREM_2M_4K0	Inverter 4kW single phase 220V + wireless remote control
VFREM_2M_5K5	Inverter 5.5kW single phase 220V + wireless remote control

➤ **Three phase setup**

References	Designation
VFREM_4T_0K75	Inverter 0.75kW three phase 380V + wireless remote control
VFREM_4T_1K5	Inverter 1.5kW three phase 380V + wireless remote control
VFREM_4T_2K2	Inverter 2.2kW three phase 380V + wireless remote control
VFREM_4T_4K0	Inverter 4kW three phase 380V + wireless remote control
VFREM_4T_5K5	Inverter 5.5kW three phase 380V + wireless remote control
VFREM_4T_7K5	Inverter 7.5kW three phase 380V + wireless remote control
VFREM_4T_11K0	Inverter 11kW three phase 380V + wireless remote control

## 2. EMITTER / RECEIVER FEATURES

- Boxes made with fiberglass IP 65
- Functioning temperature : -40°C + 85°C
- Reach : 100m
- Frequency range : VHF(Very High Frequency): 310-331 MHz  
UHF(Ultra High Frequency): 425-446 MHz
- Emitter powered by 2 batteries AA type
- Receiver powered in 230VAC

## 3. WARNING



RISK OF ELECTROCUTION



The connection, the installation, the maintenance and the opening of the box must be realized by experimented electricians.

Before putting into service, check correctly the connections and the ground connections of the different components.

Never unplug a power supply plug before stop consumption source.

Take away the power supply cords from heat, oil or sharp items.

## 4. Remote 2 directions – Speed setting pulse

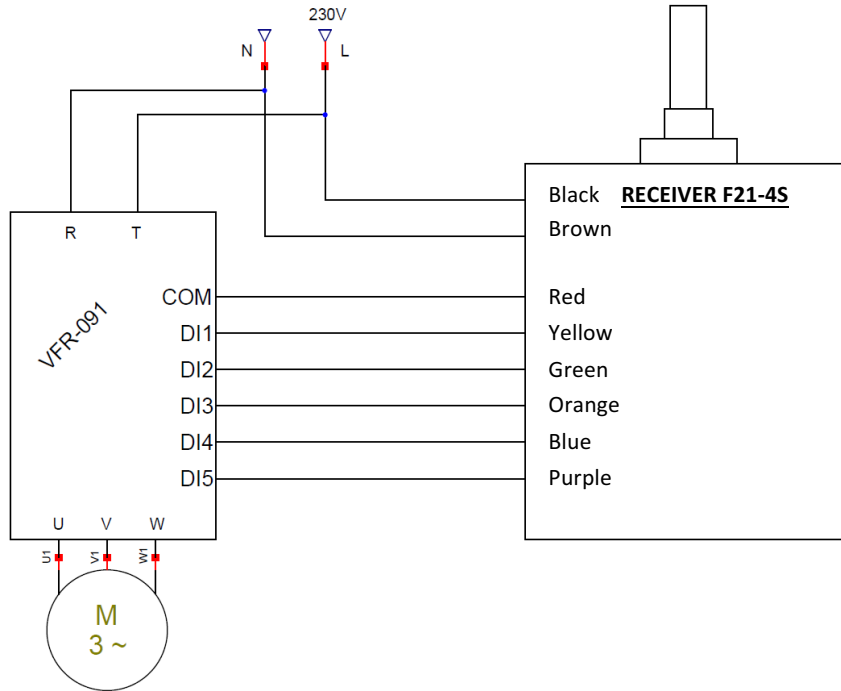
This product allows to start remotely the frequency inverter in the 2 directions and to set the speed by impulsion.

The functioning principle is the following one:

- **Red button:** Stop motor
- **Green button:** Putting into service (if the red button is unlocked).
- **Left arrow button:** Direction 1.
- **Right arrow button:** Direction 2.
- **Top arrow button:** Faster.
- **Bottom arrow button:** Slower.



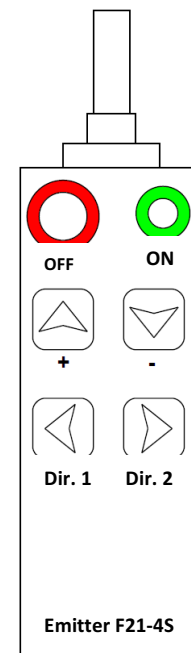
## WIRING PLAN



### Inverter settings:

F0.03=1 "up/down frequency with memory"  
 F0.09=0  
 F0.11=1 "keyboard pilotage"  
 F0.13=2 "acceleration time"  
 F0.14=2 "deceleration time"  
 F1.00=7 "DI1 faster"  
 F1.01=6 "DI2 slower"  
 F1.02=3 "DI3 pulse mode"  
 F1.03=1 "DI4 Direction 1"  
 F1.04=2 "DI5 Direction 2"  
 F1.10=2 "3 wires mode"  
 F1.11=5 "Hz/sec"

**Red button:** Stop motor  
**Green button:** Putting into service (if the red button is unlocked).  
**Left arrow button:** Direction 1.  
**Right arrow button:** Direction 2.  
**Top arrow button:** Faster.  
**Bottom arrow button:** Slower.

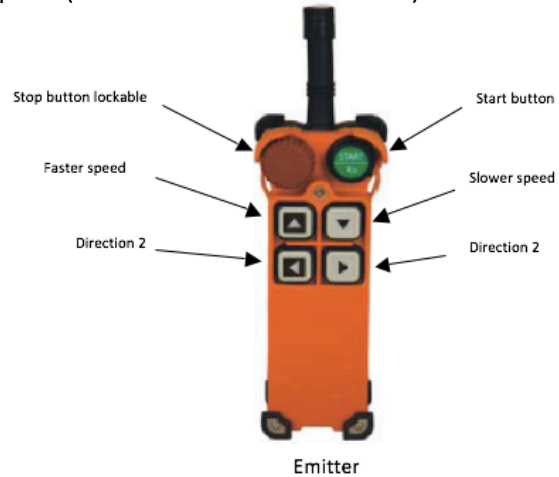


## 5. Remote 1 direction – 3 fixed speeds

Allows to start remotely a frequency inverter in 1 direction and to pilot it with 3 preset speeds.

The functioning principle is the following one:

- **Red button:** Stop motor
- **Green button:** direction 1 and minimum speed (if the red button is unlocked).
- **Top arrow button:** speed 1
- **Bottom arrow button:** speed 2
- **Left arrow button:** speed 3
- **Right arrow button:** unused



### WIRING PLAN

