

# Instructions manual

## GALVABOX

DEAN-24-I

Updated 3rd June 2020



### Caution

Please read attentively and completely this manuel before installing the unit. The manuel is integral part of the product and must accompany it until it is dismantled

## Features for GALVABOX-2M07-3, single-phase



Reference	GALVABOX-2M07-3
Power (kW)	7
Supply voltage (VAC)	230V 1ph / 50 Hz
MAXI Current (A)	32
Amount of load	3
Type of control	PID + unit of power
Dimensions (L x H x P) in mm	400 x 400 x 200

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## Features for GALVABOX-5T15-3, three-phases



Reference	GALVABOX-5T15-3
Power (kW)	15
Supply voltage (VAC)	400V 3ph / 50 Hz
MAXI Current (A)	25
Amount of load	3
Type of control	PID + units of power
Dimensions (L x H x P) in mm	400 x 400 x 200

# 1/ Starting

You are in possession of a GALVABOX control box.

Read carefully the enclosed content :

- Electrical diagram and nomenclatures.
- Instructions for use of the devices.

- Install the box away from any mechanical shocks and weather conditions.
- Carry out - with the help of the enclosed electric diagram - the electrical wiring on the terminal block in accordance with the standards in use and the code of practise.
- If used in conjunction with a level security system connect to the corresponding terminals as shown on the diagram of the terminal block. Before that remove the jumper automatically installed between the two terminals. Only one dry contacting type (ex : float switch ) or one conductive type (ex: electrodes) can be used here.
- The cables go through the lower part which is pre-equipped with the necessary cable-glands. Connect imperatively the earth terminal to the ground. Check tightening is correct.
- Then control the wiring wire by wire and make sure that voltage, current, power and functions are in conformity with those appearing in this manual.
- Control also the presence and the calibration of the protection devices. Ensure that the suitable safety devices are installed and well fitted.
- Disconnect the load by opening the fuses carrier (Q1 and Q2 for the single-phase type and Q1, Q2 and Q3 for the three-phases type).
- Power the box while keeping open the fuses carrier and check the supply voltage.
- Close the fuses carrier and pre-set the temperature controller. Check the running of the controller according to the enclosed instructions of use.
- Each function must then be checked one by one.

## CAUTION

During all the live tests, the heating loads (electrical resistances) must imperatively be put into normal operating conditions : presence of liquids.

It is better to gradually increase the values during the tests (power, temperature...) while checking the running of the different control and safety devices (limiters and security thermostats, alarms ...).

- Check that the equipments operate properly under full load.

## 2/ Functions

**Switch "On/Off Control"** ON for power-up (position I) or OFF (position 0) to power-off the temperature control loop. When the switch is on position 0, the temperature control is not powered, the power relay is in idle state.

**White indicator "Power On"** shows power supply on

**Level security** : to connect devices such as float switches or conductive level probes  
Opening the contact pauses regulation (switching to STANDBY mode) and displays "STBY" in red on the display, thereby stopping the load supply (resistances). Automatic restart when the contact is closed (e.g after the return to a normal liquid level).

**Temperature control** : PID controller ensuring process temperature control by comparison between the value measured by the temperature probe (PV : up display in white) and the setpoint value defined by the operator (SV : bottom display in green). The displays switch off when the controller is not powered.

## 3/ Settings

See the Controller and level relay «instructions for use» in appendix.

## 4/ Maintenance

Check tightening is correct for all interface connections after 50 hours of use, then every year. Carry out cleaning with compressed air with a periodicity adapted to foul up time.

Check yearly that the safety devices work properly (probes, thermostats, displays...) as well as their potential calibration. Change defective elements.

## 5/ Spare parts

Some components to replace may have a led and delivery delay incompatible with your company requirements, even during the guarantee period.  
Please check about that and get your supplies from GALVATEK.

## 6/ Guarantee

Except contrary stipulation, object of a contract, the guarantee is in conformity with the GALVATEK general terms of sales.

In any case our guarantee excludes claims for damages or payment of indemnities whatever the wrong suffered.