

## OPERATING LIMITS

Power supply system: **single phase 230V  
or three phase 230/400V**

Frequency : **50 Hz\***

Current: **1,6 à 12 A**

Motor protection: **0,55 à 5,5 kW**

Max. ambient temperature: **+ 50°C**

Indice protection: **54**

\* 60 Hz, on request

## BENEFITS

**Operating safety by automatic start-up of the pump on standby in case of failure of the pump in service (2-pump installation).**

**Protection of motors against overcurrents and isothermal protection (PTO) of open contact type) or thermistors (CTP).**

**Protection of motors against operation in 2 phases.**

**Choice of control by switches or by float type controllers (selectors), or other devices. (Please consult us).**

**Pump shutdown preventing operation without fluid.**

**Audio alarm in case of overflow in sump.**

**Transmission of information by dry contact.**

**Indication by indicator lights on front.**

**Quick action on box in case of failure, by external circuit breaker with energized indicator light.**

**Easy maintenance thanks to modular design (circuit, power, automatic operation, display and control).**

**Easy installation and utilization.**

## DESIGN

Polyester casing.

Cover closed with screws and opening prevented during operation.

Wall mounting by means of 4 lugs and screws (supplied).

In compliance with standards:

CEI 364-1, EN 60439-1 / A1 / A2 / A11.

Electromagnetic compatibility:

EN 50081-1 / EN 500 81-2.

**Two models:**

- **Yn4100** : for 1 pump with 3 switches, 2 float type controllers .
- **Yn4200** : for 2 pumps with 4 switches, 3 float type controllers for alarm and one 1 protection housing (B.I.PA)).

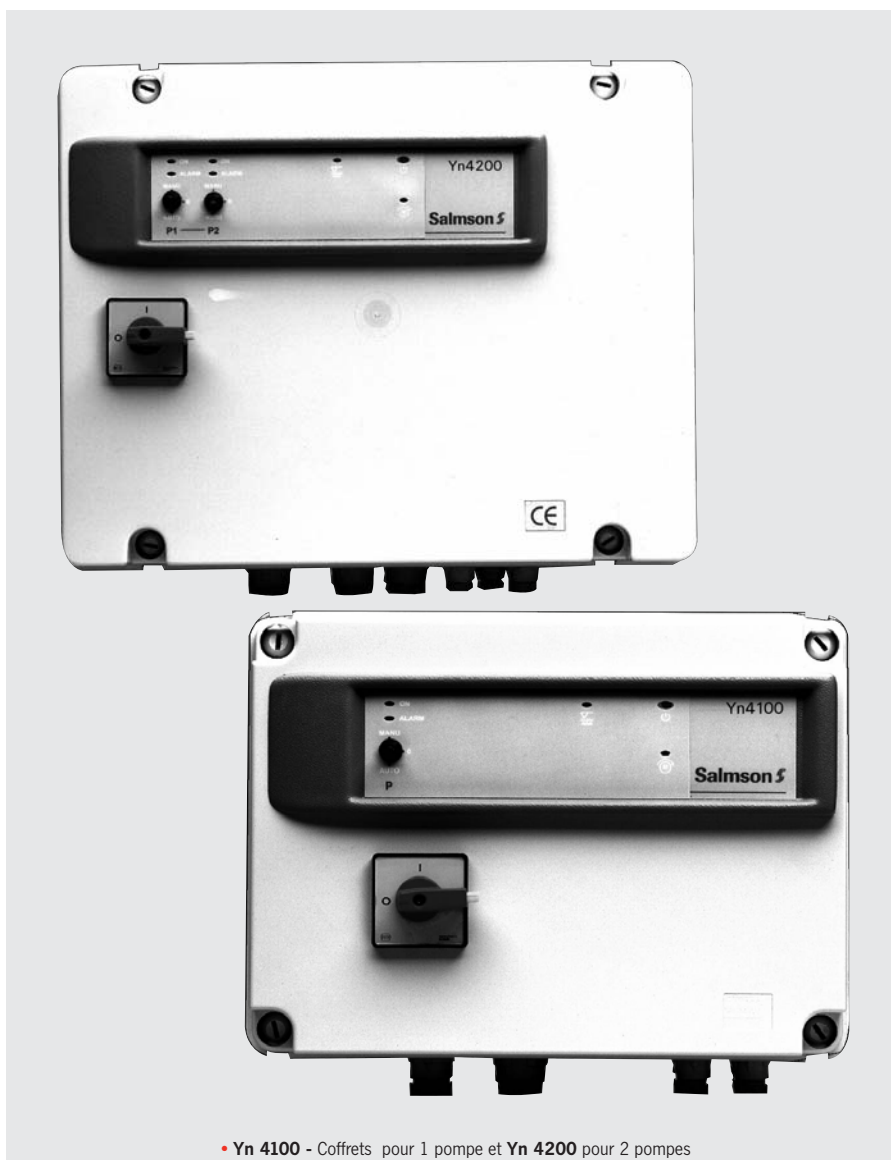
# Yn 4000

## CONTROL AND PROTECTION BOXES

### For lifting and sewage pumps 50 Hz

## APPLICATIONS

- Management of one or two pumps in fixed installation: immersed sump or dry tank (SVO, SCA, SHS, SBS, SDL and SCA 400 ≤ 5.5. kW, TP 2800, AQUAVAL).
- Level monitoring and protection of motor(s) against over currents, thermal overloads and dry operation.

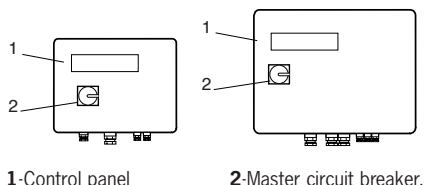


• Yn 4100 - Coffrets pour 1 pompe et Yn 4200 pour 2 pompes

# Yn 4000

## DESCRIPTION

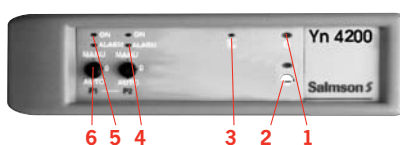
### FRONT



1-Control panel

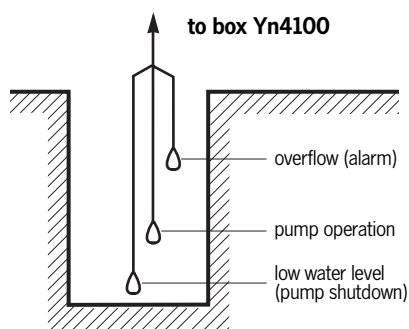
2-Master circuit breaker.

### FRONT PANEL

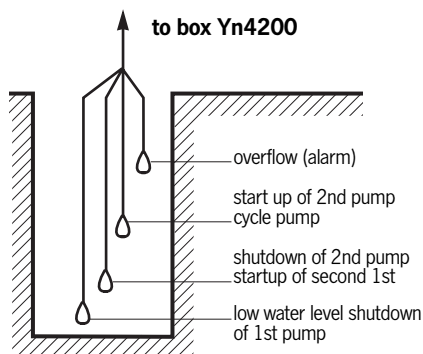


- 1 - Ener gized indicator light.
- 2 - Rotation direction detector indicator light.
- 3 - Over flow indicator light.
- 4 - Pump operation indicator light.
- 5 - Pump fault indicator light.
- 6 - 3-position switch: AUTO - 0 - MANU (fleeting).

### SINGLE-PUMP OPERATION WITH 3 SWITCHES

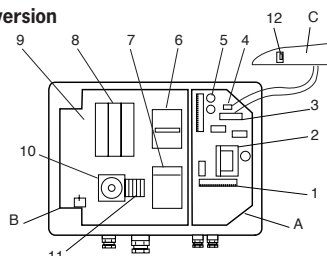


### DUAL-PUMP OPERATION WITH 4 SWITCHES

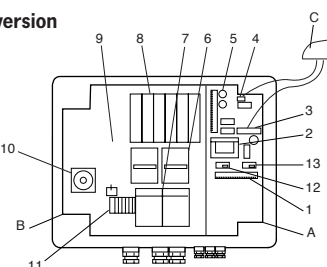


### INSIDE OF BOX

#### 1-Pump version



#### 2-Pump version



- A - Basic board.
- B - Back plate.
- C - Display and automatic operation board.
- 1 - Connection terminal block.
- 2 - 12 V transformer for low-voltage power supply of control devices.
- 3 - Connector fitted with an A/C connecting cord pin.
- 4 - A/C connecting cord connector receiving pin.
- 5 - Fuse for selected voltage (230 V or 400 V).
- 6 - Contactor (one per pump).
- 7 - Thermal relay with motor current adjusting screw.
- 8 - Fuse holders - fuses protecting motors against short circuits.
- 9 - Location for starting capacitor.
- 10 - Master circuit breaker with power supply network connection terminal blocks.
- 11 - Earth terminal block.
- 12 - Operation selector according to detection mode (switches or controllers).
- 13 - Pump shutdown selector - deferred or simultaneous mode (2-pump version only).

## SELECTION OF BOXES

According to the current rating of the motor (which determines the type of thermal relay) and the operating voltage.

See the pump identification plate (or the manual for the relevant pump).

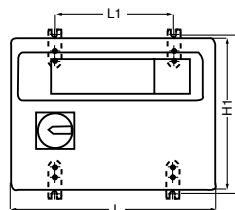
Current range in A	Box order reference	
	Yn 4100 1 PUMP	Yn 4200 2 PUMPS
1,6 to 5	(Yn 4105) <b>4035801</b>	(Yn 4205) <b>4035803</b>
3,7 to 12	(Yn 4112) <b>4035802</b>	(Yn 4212) <b>4035804</b>

### ANCILLARY CONNECTIONS

The following devices are to be connected to the box:

- pump(s),
- 12 V output (optional interface board for connection of SDL-i or SCA 400),
- probe (SDL-i or SCA 400),
- fault transmission,
- power supply system.

### DIMENSIONS OF BOX



	Yn4100	Yn4200
Weight (in kg):		
without packaging	3,7	5,9
with packaging	4,6	7
L (mm)	320	400
L1 (mm)	188	222
H (mm)	255	335
H1 (mm)	235	320
Depth (mm)	140	140

### OPTIONS

- Floats.



- NIVOSTABLE 430