

Electronic control panels

RAIN PLUS 1 RANGE 0,5÷20HP

Direct starting electronic control panel 1 motor for first rain collection systems with display

- Motor's data auto learning
- Events and alarms data logger
- Remote control
- Single-phase version equipped with power relay for inductive loads (up to 31A)
- Motherboard protection



GENERAL SPECIFICATIONS

- Operating voltage 230Vac +15/-20% 50/60Hz (SA682.xx)
- Operating voltage 400Vac +15/-20% 50/60Hz (SA685.xx)
- General disconnecting switch with door lock
- Button for automatic operation
- Button for manual operation (stable/unstable)
- Auxiliary circuit protection fuse
- Motor protection fuse
- Contactor (SA685.xx)
- External thermoplastic box
- Cable glands
- Protection degree IP65
- Operating temperature -5/+50°C
- Relative humidity 60% at 50°C (not condensed)

ADVANTAGES

- Multilingual Display LCD to visualize:
 - Operating voltage
 - Current
 - Hour counter
 - Level status
 - All information concerning the operation of the motor
- Maximum and minimum current auto learning for each motor
- Dry running with level control and minimum current
- Adjustable probe sensitivity
- Waiting for motor start-up adjustable by decanting
- Adjustable supply mains waiting
- Operation with float switches and probes

INPUTS / OUTPUTS

- N°2 very low voltage inputs for float switches or probes (minimum/maximum)
- Very low voltage input for rain sensor
- Very low voltage input for motor klixon
- Alarms output 12Vdc max 200mA for rain sensor
- Alarms output 12Vdc max 200mA for flashing LED
- Alarms output max 5A NC-COM-NO (pure contact)

PROTECTIONS

- Maximum and minimum current protection with alarm
- Lack and sequence of phases protection with automatic reset and alarm
- Minimum and maximum voltage protection with automatic reset and alarm
- Motor klixon protection with automatic reset and alarm

SINGLE-PHASE 230Vac +15/-20% 50/60Hz

CODE	TYPE	POWER		OPERATING CURRENT [A]	DIMENSIONS mm			WEIGHT Kg	BOX
		kW	Hp		A-H	L-W	P-D		
SA682.00	RAIN PLUS 1 230	0,37±2,2	0,5±3	2÷18	285	245	140	2,3	03

THREE-PHASE 400Vac +15/-20% 50/60Hz

CODE	TYPE	POWER		OPERATING CURRENT [A]	DIMENSIONS mm			WEIGHT Kg	BOX
		kW	Hp		A-H	L-W	P-D		
SA685.02L	RAIN PLUS 1 400 10	0,37±7,5	0,5±10	0,5±16	285	245	140	2,8	03
SA685.03L	RAIN PLUS 1 400 15	2,2±11	3±15	4±25	345	285	165	3,4	04
SA685.04L	RAIN PLUS 1 400 20	7,5±15	10±20	16±32	345	285	165	3,5	04

OPTIONALS

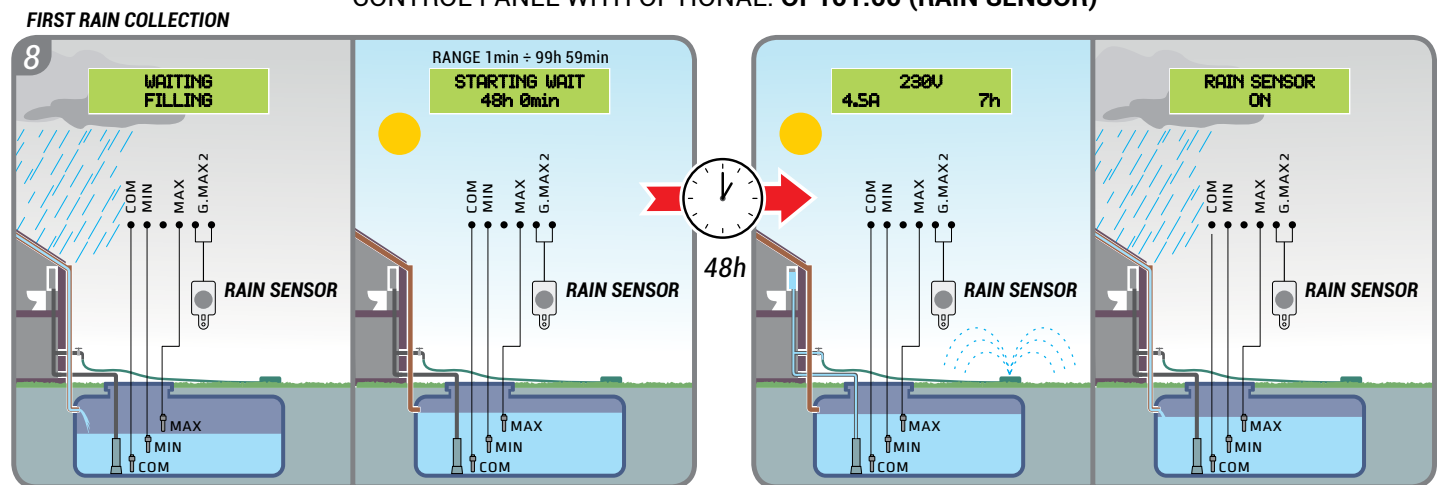
CODE	TYPE
OP100.29/B	On board GPRS expansion
OP100.59/B	On board Ethernet - WiFi expansion
OP101.00	Rain sensor con cavo 2m e staffa di fissaggio
OP100.05	Wired single-phase surge arrester type 2
OP100.05/1	Wired three-phase surge arrester type 2
OP200.00	Uscita allarme 12Vdc 200mA e contatto puro
OP100.13/1/12	Wired siren 12Vdc
OP100.13/2/12L	Wired flashing Led lamp 12Vdc
SS100.00	Visual and acoustic alarm indicator (BASIC ALARM VA 012) <i>see page 20</i>
SS101.01	Visual and acoustic alarm indicator with buffer battery (TOP ALARM VAB 230) <i>see page 19</i>
OP00.10	Couple of brackets for collar (reference BOX 03-04)

For more optionals see page 78

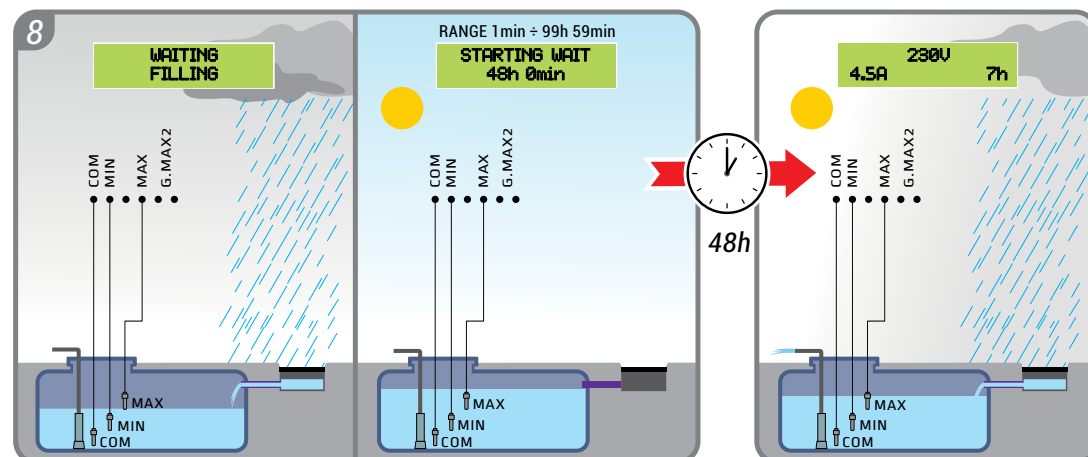
SPARE PARTS

CODE	TYPE
AC100.22/1/30	Display electronic board with flat cable 20pin 30cm
SD682.20	Single-phase RAIN PLUS 1 electronic board
SD685.20	Three-phase RAIN PLUS 1 electronic board 20A
SD685.30-40	Three-phase RAIN PLUS 1 electronic board 30-40A

CONTROL PANEL WITH OPTIONAL: OP101.00 (RAIN SENSOR)



WITHOUT RAIN SENSOR



COMPONENTS KEY

- Rain sensor
- Level probes

The addition of some optionals can imply changes on the size of the control panel. For further details please contact our technical/commercial department.