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*
- *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 kW	POWER Hp	OPERATING CURRENT [A]	DIMENSIONS mm A-H	DIMENSIONS mm L-W	DIMENSIONS mm P-D	WEIGHT Kg	BOX
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 kW	POWER Hp	OPERATING CURRENT [A]	DIMENSIONS mm A-H	DIMENSIONS mm L-W	DIMENSIONS mm P-D	WEIGHT Kg	BOX
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

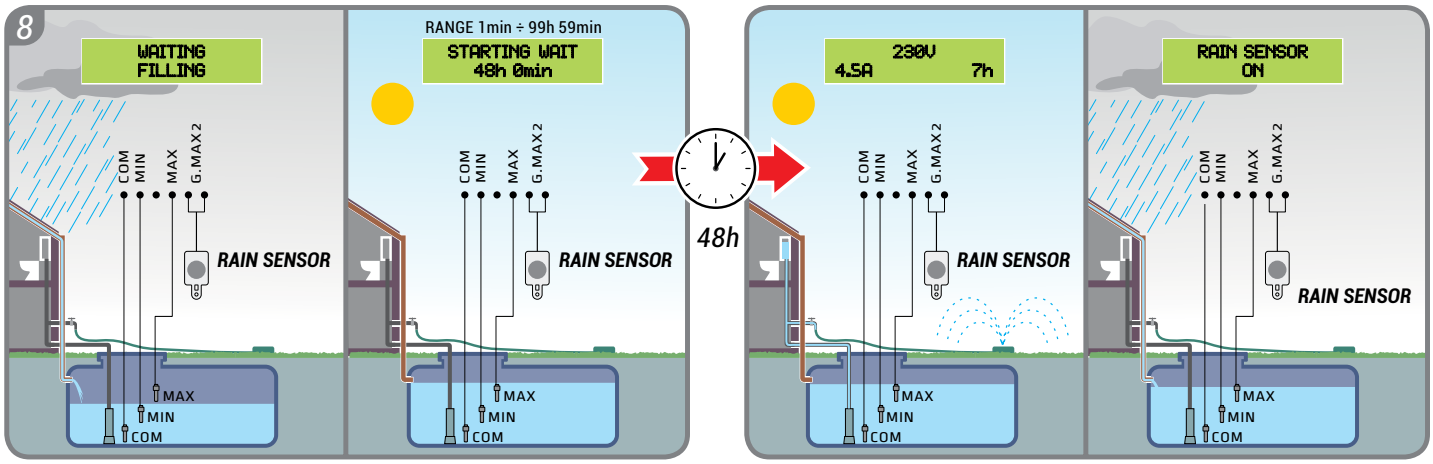
CODE	TYPE
OP101.00	Rain sensor with 2m cable and fixing bracket
OP100.05	Wired single-phase surge arrester type 2
OP100.05/1	Wired three-phase surge arrester type 2
OP200.00	Alarm output 12Vdc 200mA and pure contact
OP100.13/1/12	Wired siren 12Vdc
OP100.13/2/12L	Wired flashing Led lamp 12Vdc
SS100.00	Visual and acoustic alarm indicator (BASIC ALARM VA 012) **see page 20**
SS101.01	Visual and acoustic alarm indicator with buffer battery (TOP ALARM VAB 230) **see page 19**
OP00.10	Couple of brackets for collar (reference BOX 03-04)

SPARE PARTS

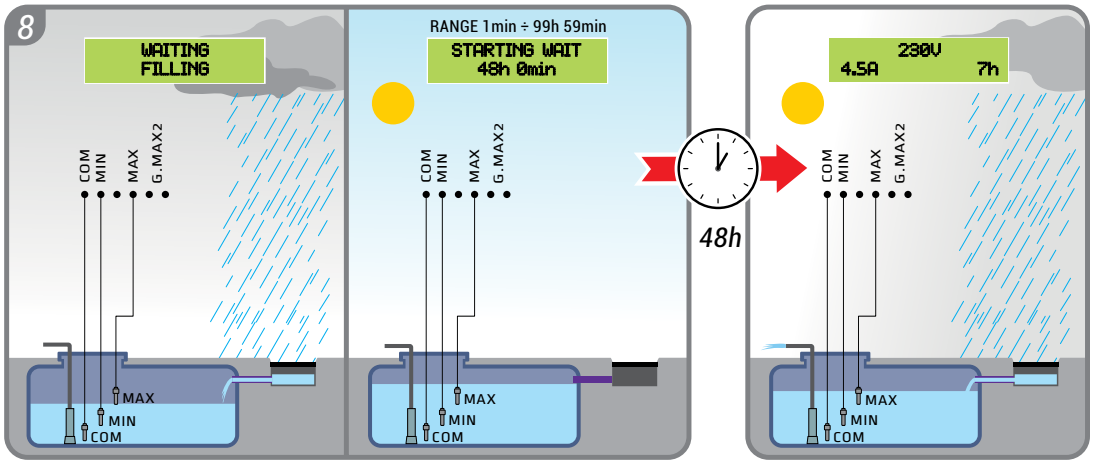
CODE	TYPE
AC100.22/1/30	Display electronic board with flat cable 20pin 30cm
SD682.20	Single-phase RAIN PLUS 1 electronic board
SD685.20	Three-phase RAIN PLUS 1 electronic board 20A
SD685.30-40	Three-phase RAIN PLUS 1 electronic board 30-40A

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

FIRST RAIN COLLECTION



WITHOUT RAIN SENSOR



KEY COMPONENTS

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.