Electronic control panels

MULTIPLUS 2 *RANGE 0,5÷20HP*

Direct starting electronic control panel 2 motors for pressure booster, clean water and sewage with display

· *Multi application control panel*
· *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*

SALUPO CONNECT

GENERAL SPECIFICATIONS

· Operating voltage 230Vac +15/-20% 50/60Hz (SA694.xx)
· Operating voltage 400Vac +15/-20% 50/60Hz (SA697.xx)
· General disconnecting switch with door lock
· Button for automatic operation
· Button for manual operation (stable/unstable)
· Siren shut-off button
· Auxiliary circuit protection fuse
· Motors' protection fuse
· N°2 contactors (SA697.xx)
· External thermoplastic box
· Cable glands
· Protection degree IP65
· Operating temperature -5/+50°C
· Relative humidity 60% at 50°C (not condensed)

ADVANTAGES

· Display LCD multilingua per la visualizzazione di:
  - Operating voltage
  - Current for each motor
  - Hour counter for each motor
  - Pressure switches status
  - Level status
  - System pressure with pressure transducer
  - Tank level in meters with piezoresistive probe
  - All information concerning the operation of the motors
· Maximum and minimum current auto learning for each motor
· Adjustable maximum number of starts per hour
· Adjustable motor start test (24-48-72-96h)
· Dry running with level control, cosφ and minimum current
· Adjustable probe sensitivity
· Deactivable alternance of the 2 motors
· 3s delay between the starting of the 2 motors
· Automatic switching in case of motor failure
· Loss of pressure control
· Adjustable supply mains waiting
· Siren shut-off
· Operation with pressure switches, float switches, probes, pressure transducer and piezoresistive probe 4-20mA

INPUTS / OUTPUTS

· N°4 very low voltage inputs
· Input 4-20mA
· N°2 very low voltage inputs for motor klixon
· N°2 alarm outputs 12Vdc max 200mA for siren and flashing Led lamp
· Alarm output max 5A NC-COM-NO (pure contact)

PROTECTIONS

· Maximum and minimum current protection for each motor with alarm
· Lack and sequence of phases protection with automatic reset and alarm
· Minimum and maximum voltage protection with automatic reset and alarm
· Klixon protection for each motor 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
SA694.00	MULTIPLUS 2 230	0,37÷2,2	0,5÷3	2x(2÷18)	285	245	140	2,4	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
SA697.02L	MULTIPLUS 2 400 10	0,37÷7,5	0,5÷10	2x(0,5÷16)	345	285	165	3,8	04
SA697.03L	MULTIPLUS 2 400 15	2,2÷11	3÷15	2x(4÷25)	380	300	150	5,3	05
SA697.04L	MULTIPLUS 2 400 20	7,5÷15	10÷20	2x(16÷32)	460	380	150	6,6	07

OPTIONALS

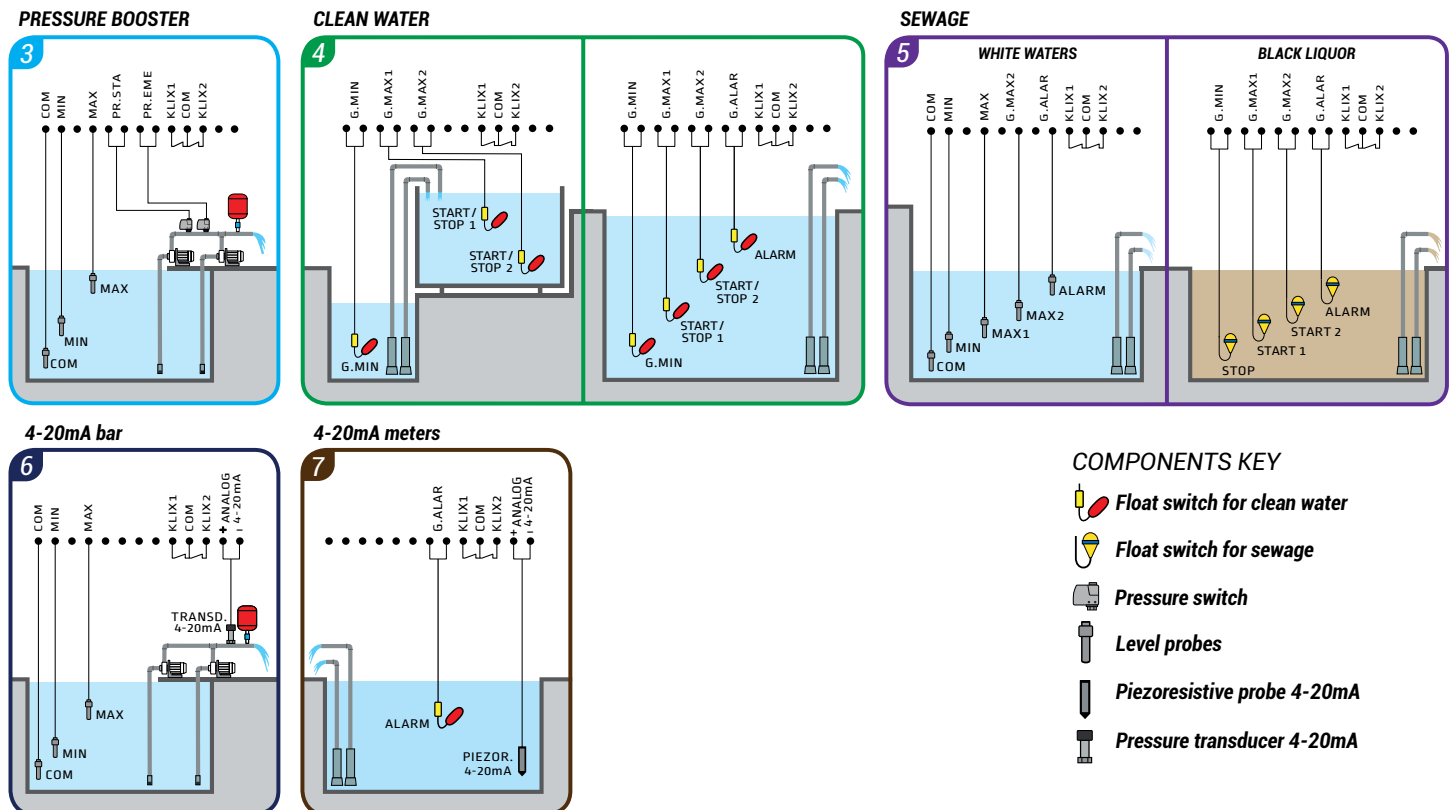| CODE	TYPE
OP100.29/B	On board GPRS expansion
OP100.49/B	On board MODBUS RS-485 expansion
OP100.59/B	On board Ethernet - WiFi expansion
OP100.69/B	On board BMS expansion up to 3 motors
OP100.99/B	On board expansion to detect water in the oil chamber up to 3 motors
OP100.01	3 level probes kit
OP100.05	Wired single-phase surge arrester type 2
OP100.05/1	Wired three-phase surge arrester type 2
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**
AC300.11.10-004.20	Pressure transducer 0-10bar 4-20mA with 4m cable
AC300.11.16-004.20	Pressure transducer 0-16bar 4-20mA with 4m cable
AC300.11.25-004.20	Pressure transducer 0-25bar 4-20mA with 4m cable
AC300.20.01-005.31	Piezoresistive probe 4-20mA with 5m cable
AC300.20.01-010.31	Piezoresistive probe 4-20mA with 10m cable
AC300.20.02-010.20	Piezoresistive probe 4-20mA with 10m cable per SEWAGE
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
SD694.20/1	Single-phase MULTIPLUS 2 electronic board
SD697.20/1	Three-phase MULTIPLUS 2 electronic board 20A
SD697.30-40/1	Three-phase MULTIPLUS 2 electronic board 30-40A

PRESSURE BOOSTER

CLEAN WATER

SEWAGE

4-20mA bar

4-20mA meters

COMPONENTS KEY

- Float switch for clean water
- Float switch for sewage
- Pressure switch
- Level probes
- Piezoresistive probe 4-20mA
- Pressure transducer 4-20mA

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