

Electronic control panels

INVERTER PLUS 1 RANGE 1÷30HP

Inverter starting electronic control panel 1 motor with display

- Easy to program
- Programmable set-point
- Anti-clogging system with reverse running
- Digital thermostat
- Events and alarms data logger
- Motor maintenance data logger
- Remote control
- Motherboard protection



GENERAL SPECIFICATIONS

- Operating voltage 230Vac $\pm 10\%$ 50/60Hz (SQ703.2x)
- Operating voltage 400Vac $\pm 10\%$ 50/60Hz (SQ704.2x)
- General disconnecting switch with door lock
- Button for automatic operation
- Button for manual operation
- Auxiliary circuit protection fuse
- Inverter protection fuse
- Inverter
- Forced ventilation with filters
- Connection terminal board
- External metal box
- Protection degree IP54
- Operating temperature $-5/+40^{\circ}\text{C}$

ADVANTAGES

- Multilingual Display LCD to visualize:
 - Frequency
 - Current
 - $\text{Cos}\phi$
 - Hour counter
 - System pressure with pressure transducer
 - water level in the tank in meters by means of a piezoresistive probe
 - Internal temperature of the control panel
 - All information concerning the operation of the motors
- Anti-clogging system with reverse running at start-up and in case of blockage
- Dry control running with $\text{cos}\phi$
- Up to 4 programmable set-point
- Loss of pressure control
- Adjustable supply mains waiting
- PID operation
- Operation with potentiometer

INPUTS / OUTPUTS

- Input 4-20mA
- Very low voltage galvanically isolated input for control external
- N°4 very low voltage galvanically isolated inputs for set-point

PROTECTIONS

- Maximum current protection with alarm
- Lack phases protection with alarm
- Earth leakage protection with alarm

SINGLE-PHASE 230Vac ±10% / OUTPUT 3~230Vac 50/60Hz

CODE	TYPE	POWER		MAX CURRENT [A]	DIMENSIONS mm			WEIGHT Kg	BOX
		kW	Hp		A-H	L-W	P-D		
SQ703.20	INVERTER PLUS 1 230 1	0,75	1	4,2	400	300	230	12	41
SQ703.21	INVERTER PLUS 1 230 2	1,5	2	7,5	400	300	230	13	41
SQ703.22	INVERTER PLUS 1 230 3	2,2	3	10	400	300	230	14	41

N.B.: When ordering, check the power and the rated current of the motor

THREE-PHASE 400Vac ±10% / OUTPUT 3~400Vac 50/60Hz

CODE	TYPE	POWER		MAX CURRENT [A]	DIMENSIONS mm			WEIGHT Kg	BOX
		kW	Hp		A-H	L-W	P-D		
SQ704.20	INVERTER PLUS 1 400 1	0,75	1	2,5	400	300	230	11	41
SQ704.21	INVERTER PLUS 1 400 2	1,5	2	4	400	300	230	12	41
SQ704.22	INVERTER PLUS 1 400 3	2,2	3	5,5	400	300	230	13	41
SQ704.23	INVERTER PLUS 1 400 5,5	4	5,5	9	400	300	230	13	41
SQ704.24	INVERTER PLUS 1 400 7,5	5,5	7,5	12	500	400	230	18	50
SQ704.25	INVERTER PLUS 1 400 10	7,5	10	16	500	400	230	18	50
SQ704.26	INVERTER PLUS 1 400 15	11	15	24	700	500	290	31	71
SQ704.27	INVERTER PLUS 1 400 20	15	20	31	700	500	290	32	71
SQ704.28	INVERTER PLUS 1 400 25	18,5	25	39	800	600	290	45	80
SQ704.29	INVERTER PLUS 1 400 30	22	30	45	800	600	290	46	80

N.B.: When ordering, check the power and the rated current of the motor

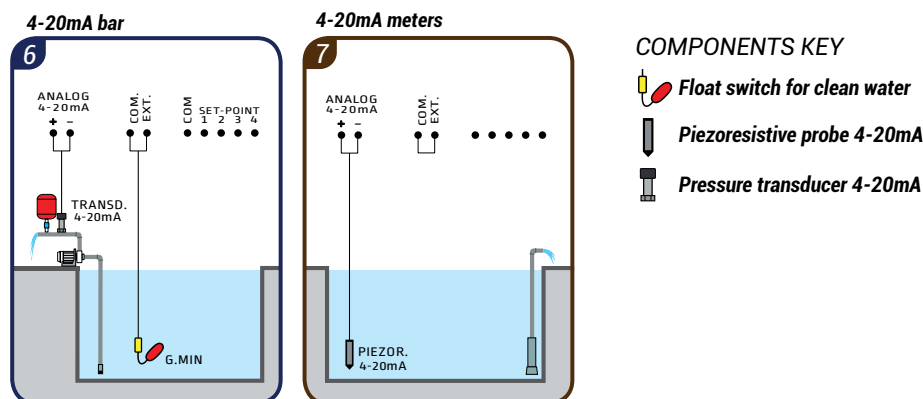
OPTIONALS

CODE	TYPE
OP100.29/M	Modular GPRS expansion
OP100.49/M	Modular MODBUS RS-485 expansion
OP100.59/M	Modular Ethernet - WiFi expansion
OP100.69/M	Modular BMS expansion up to 3 motors
OP331.230	Wired LEVEL 230Vac control relay
OP100.01	3 level probes kit
OP100.02/7	Wired selector switch 0-1 (set-point)
OP100.17/024	Wired 24Vac relay complete with socket (set-point)
OP100.02/3	Potentiometer to adjust the frequency
OP200.01	Alarm output 24Vac and pure contact
OP100.05/1	Wired three-phase surge arrester type 2
OP100.22/05	Wired three-phase inductance DV/DT 5,25A with cooling fan
OP100.22/08	Wired three-phase inductance DV/DT 8,4A with cooling fan
OP100.22/11	Wired three-phase inductance DV/DT 11A with cooling fan
OP100.22/17	Wired three-phase inductance DV/DT 17A with cooling fan
OP100.22/32	Wired three-phase inductance DV/DT 32A with cooling fan
OP100.22/45	Wired three-phase inductance DV/DT 45A with cooling fan
AC300.10.10-004.00	Pressure transducer 0-10bar connector and 4m FRAF cable
AC300.10.16-004.00	Pressure transducer 0-16bar connector and 4m FRAF cable
AC300.10.25-004.00	Pressure transducer 0-25bar connector and 4m FRAF 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 for sewage

For more optionals see page 78

SPARE PARTS

CODE	TYPE
AC100.22/1/50	Display electronic board with flat cable 20pin 50cm
AC100.22/1/80	Display electronic board with flat cable 20pin 80cm
AC100.22/1/100	Display electronic board with flat cable 20pin 100cm
SD703.024	INVERTER PLUS 1 230 MODBUS-RTU electronic board 24Vac
SD704.024	INVERTER PLUS 1 400 MODBUS-RTU electronic board 24Vac



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