

# Control Panel Type ABS CP 114

CP 114 is a compact control panel for single pump applications using a 3-phase pump on a 1-phase main.

1 pump version with variable frequency drive (VFD) up to max. 7.5 A or 10 A without Ex-approval.

## Application areas

- Tanks, small pits or commercial standard applications with single phase power supply 1/230/N/PE

## Specification

- Control panel with two line LCD display. LED power, run- and alarm indication, manual-0-automatic switch and clear text display of all messages
- Function for reversing the pump via VFD
- VFD with build-in EMC filter C1 category, using standard 3-phase pump (3x230V)
- Jog dial and ESC button
- Possible connections for level sensor with digital input (e. g. float switches), analogue input 4-20 mA (e. g. submersible pressure sensors)
- Battery charger, built-in, for optional back-up battery
- Built-in alarm buzzer and top-mounted LED flashlight (can be switched off)
- 1 potential free contact as changer
- Standard configuration is complete wired in an Sulzer steel cabinet including
  - lockable door
  - wall-mounting holder
  - cable glands
  - protective shroud inside
- Main switch

## Indicated values

- Level (if the mA input)
- No of starts per pump
- Running hours per pump
- All settings and alarms
- Current per pump (showing on display of VFD)

## Settings

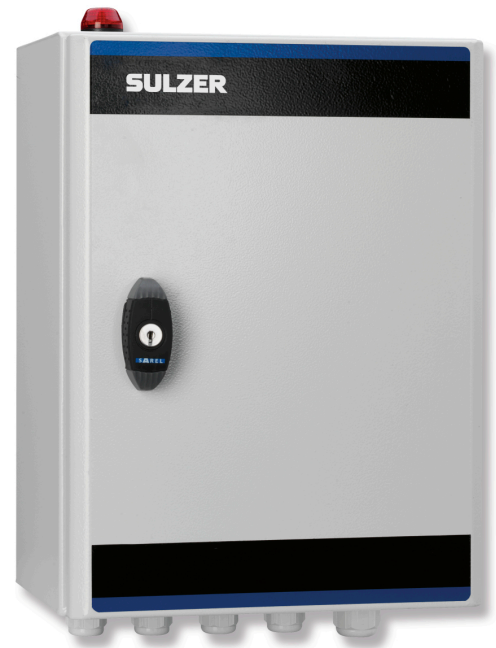
- Start/stop level
- Start/stop delay
- Emergency pump run timer on high float
- Exercise run
- Language

## Features for pump protection

- Thermal failure (Klixon or PTC)
- Overload failure via VFD
- Leakage (DI)

## Approved standards

- EMC emission standard EN 61000-6-3:2001
- EMC immunity standard EN 61000-6-2:1999
- LVD electrical safety EN 61010-1
- Safety of Machinery- Electrical Equipment of Machines EN 60204-1
- Adjustable speed electrical power drive systems EN 61800-3



## Technical specification

Description	
Ambient operating temperature	-10 to +50°C
Ambient storage temperature	-25 to +70°C
Humidity	5 – 95% non-condensing
Dimensions	HxWxD 420 x 300 x 230mm Height top edge flash light Depth top edge lock
Degree of protection	IP54
Power supply	210–240V, 50–60 Hz 1~
Analogue sensor	4 – 20mA
Temperature sensor	Klixon, PTC limit > 3 kΩ
Leakage sensor	Limit < 50 kΩ
Analogue input resolution	12 bits
Max. length of I/O cables	30 m
Charge current for battery	Max. 80mA, 13,7V
Weight	Approx. 10kg

## Special VFD values

Max. altitude of site	1000m 2000m current reduction 1% per added 100m
Range of output frequency	0,5 – 400 Hz
Max. transient current for	
60 sec.	150% of VFD nominal current
2 sec.	165% of VFD nominal current
C1 EMC category	Max. 5m shielded cable, switching frequency 4, 8 or 12 kHz

## Part-No. & Accessories

Description	Part number
CP 114 up to 1,5kW – 7,5A	62160870
CP 114 up to 2,2kW – 10,0A	62160871
Backup battery add-on kit 12VDC 1,2Ah with needed connections and holder	62160961
Heater with thermostat and connections, for outdoor installation	62160088
External alarm box 12VDC with combined acoustical and optical alarm	62160978

## Mounting template

