

Company name: Created by: Phone:

24/04/2020

Note! Product picture may differ from actual product

Date:

Product No.: 99369650

Qty.

1

Description

LC 231

The LC 231 level controllers offer a comprehensive range of features for control and monitoring of pumps in wastewater, water supply and drainage systems.

The LC 231 pump controllers are designed for level control, monitoring and protection of Grundfos pumping systems one pumps

or two pumps starting direct-on-line.

The LC 231 pump controllers can be used in various type of empty application e.g. waste water transport, drainage or tank filling in water supply.

The set-up of the control is easily done either by the predefined application settings or via the step-by-step start-up wizard in the intuitive Grundfos GO app, using Bluetooth Smart technology. With the Grundfos GO app, all detailed pump settings can be easily being configured, monitored and commissioned.

Even without using the app, you have the option directly from display to change the operation mode from auto to manual start/stop and adjusting the level setting.

The controller is equipped with configurable input/output terminals, giving full flexibility for all applications. Daily control, supervision and commissioning is straightforward with the intuitive and easy- to-use user interface. This saves you valuable time when getting started, and in your daily interaction with pumps and the controller.

The controller integrates seamlessly into the Grundfos range of communication modules, ensuring an easy fit into any supervisory system such as SCADA or Grundfos CLOUD.

With the built-in certified motor protection, and the current measurement, the LC 231 pump controller provide a service indicator function

hat helps keep track of when service is needed.

The controller maintains a detailed alarm and warning log with the last 20 alerts. The alarm log can be accessed remotely via SCADA or Grundfos CLOUD. You can also use Grundfos GO to inspect the logs in localized,

translated text for easy troubleshooting and remedial measures at the pumping station.

The LC 231 controller enable:

Control of 1 or 2 pumps based on signals from sensor input (analog, 0-5 V, 0.5-3.5V, 0-10 V, 0-20 mA, 4-20 mA or digital, float switch)

- Support up to five control levels for both analogue level transmitter or float switch operation
- Supports simple application where only one float switch is present single float switch operation.
- Configurable input/output terminals that can be used as digital input/output, analogue input and Pt 100/1000 inputs for flexible use in the actual application
- Prevent the pumps with anti-seizing from choking or seizing due to limestone build-up or other deposits
- Prevent the mains load when several pumping stations are started up at the same time with power-on delay.
- Protection against water hammer as quick restart/simultaneous start is blocked and delayed
- Selection of automatic alarm resetting
- Setting of stop delays matching the actual operating conditions

	GRUNDFO	os X	Company r Created by Phone: Date:		
	Description		Date.	24/04/2020	
Qty.	Description				
	 Shows the actual liquid level Alarm indication via a build in l 	buzzer			
	Alarm indication of:				
	Power/current overload				
	Dry running				
	High water level				
	Incorrect phase sequences or	missing phase			
	Sensor inconsistency or failure				
	Intrusion detection				
	Water on floor				
	 Too many restarts 				
	Pump overheating and moistu	re detection			
	As standard, the LC 231 controller has two alarm relays that can be configured using Grundfos GO to show a				
	variety of status				
	information on a supervisory sys	stem of PLC.			
	Controls: Current measurement (Yes/No)	: Y			
	Technical:				
	Number of pumps:	2			
	Materials:				
	Cabinet:	Plastic			
	Installation:				
	Range of ambient temperature:	-25 40 °C			
	Cabinet mounting:	Wall mounting			
	Earth connection:	N, PE			
	Electrical data:				
	Mains frequency:	50 / 60 Hz			
	Rated voltage:	1 x 110-240 V [3 x 2	200-460 V]		
	Rated current:	1-9 A	-		
	Capacitor size - run capacitor:	N/A µF			
	Capacitor size - starting capacit				
	Method of start:	Direct-on-line (DOL)		
	Enclosure class (IEC 34-5): Back-up fuse required:	IP54 35 A			
	Others:	2 ka			
	Net weight: Gross weight:	2 kg 2 70 kg			
	Shipping volume:	2.79 kg 0.015 m³			
	Danish VVS No.:	391378580			
	Swedish RSK No :	5886184			

5886184

CE,EAC

Swedish RSK No.:

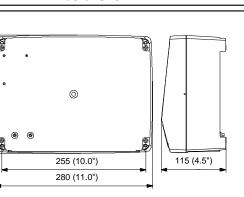
Approvals:



Company name: Created by: Phone:

215 (8.5") 165 (6.5")

Phone: Date: 24/04/2020



Description	Value	
General information:		
Product name:	LC 231 2 x 1-9 DOL PI	
Product No:	99369650	
EAN number:	5713827986697	
	5713827986697	
Technical:		
Number of pumps:	2	
Materials:		
Cabinet:	Plastic	
Installation:		
Range of ambient temperature:	-25 40 °C	
Cabinet mounting:	Wall mounting	
Earth connection:	N, PE	
Electrical data:		
Mains frequency:	50 / 60 Hz	
Rated voltage:	1 x 110-240 V [3 x 200-460 V]	
Rated current:	1-9 A	
Capacitor size - run capacitor:	N/A µF	
Capacitor size - starting capacitor:	N/A µF	
Method of start:	Direct-on-line (DOL)	
Enclosure class (IEC 34-5):	IP54	
Back-up fuse required:	35 A	
Controls:		
Current measurement (Yes/No):	Y	
Others:		
Net weight:	2 kg	
Gross weight:	2.79 kg	
Shipping volume:	0.015 m³	
Danish VVS No.:	391378580	
Swedish RSK No.:	5886184	
Approvals:	CE,EAC	