

Operator Panel LCD COVER 7"

Type: **Remote Panel TFT**

Applications: **UPS, generators**



A 7" diagonal universal remote LCD touchscreen display with a resolution of 800x480px is used to monitor the parameters and operating status of a UPS or power generator. Depending on the model of the unit being monitored, various types of information are displayed for the ongoing evaluation of the operating mode and parameters of the consumers it powers. As most central UPS systems operate indoors, inaccessible to the user, there is a need to view their parameters in order to take appropriate action in the event of a situation such as a mains power outage or failure.

The remote LCD panel is usually installed in the guard room, gatehouse, near to powered equipment on the production floor, as well as near to operators of e.g. medical equipment, IT systems - for whom the essential information is that there has been a power outage or failure and the equipment, powered by the UPS, is running on battery power with a limited operating time.

The operator's rapid response to the situation allows the production stage to be completed and the production line stopped, the examination to be completed and the medical device safely shut down, or other actions to be taken as appropriate.

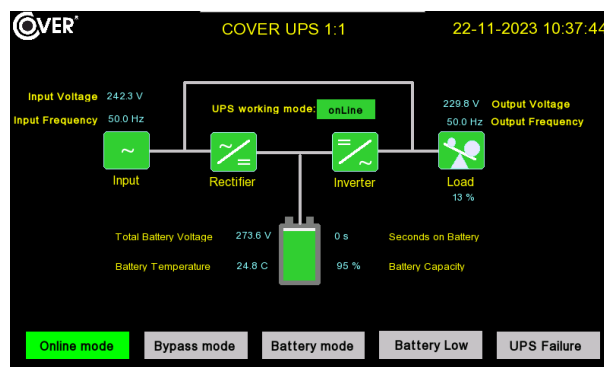
Communication between the UPS and the panel, takes place via a local network based on the Modbus communication protocol. The advantage of the solution is the practically unlimited distance between devices and the possibility of monitoring multiple devices via a single LCD panel.

An additional advantage is that UPS devices from different manufacturers can be monitored after appropriate configuration by the panel supplier.

Display size	7"
Resolution, colour	800 x 480 px, 16,77 millions of colours
Backlighting, brightness	LED, brightness 250cd/m2
Touch panel	Yes, TFT
Cooling method	Natural, unforced airflow
Communication ports	COM0:RS232/RS485-2/RS485-4, COM1:RS232/RS485-2/RS485-4, COM2:RS232
Communication interface	Ethernet
Operating temperature	0 ÷ +50 °C
Storage temperature	-20 ÷ +60 °C
Humidity	10 ÷ 90% non-condensing
Weight	0,5 kg
Panel dimensions	250 x 190 x 70 mm
Degree of protection	IP20
Power consumption, voltage	3,6W, 24Vdc
CE certified	Compatible with EN6100-6-4:2007+A1:2011, EN61000-6-2:2005

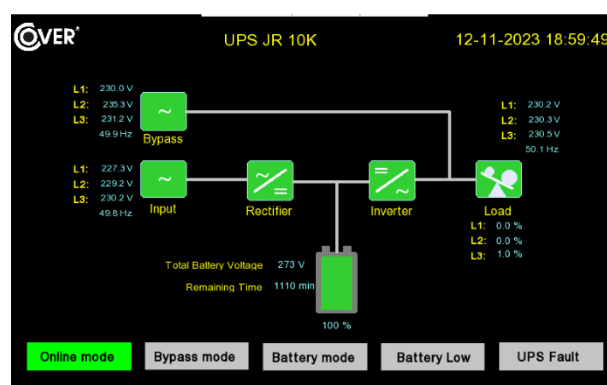
Example graphic interface of a 1-phase UPS

- UPS model readout
- Current date and time
- Phase voltage and frequency measurements
- Output voltage and frequency measurement
- Load level indication
- Current operating mode
- Battery voltage and temperature measurement
- Display of the current battery capacity
- Display of available autonomy

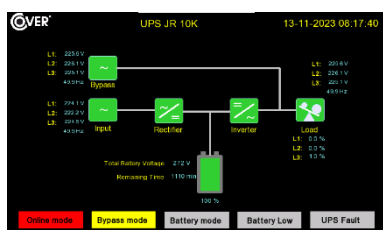


Example graphic interface of a 3-phase UPS

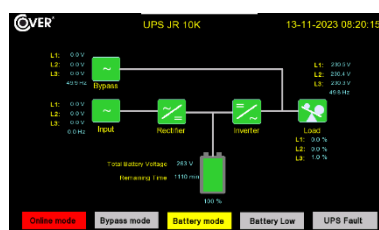
- UPS model readout
- Current date and time
- Measurement of L1, L2, L3 phase voltages and frequency independently for rectifier and bypass path.
- Measurement of output voltages and frequencies
- Display of load level of individual phases
- Current operating mode
- Battery voltage measurement
- Display of current battery capacity
- Display of available autonomy



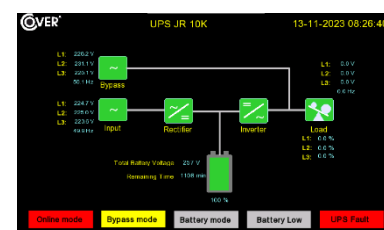
Any change in the UPS operating mode, results in a visual indication in the form of a change in the illumination of the corresponding icon with the operating mode description.



Bypass mode



Battery mode



UPS Fail

Requirements for panel installation

The remote panel allows mounting on a wall or other surface at a location convenient for the user.

Power supply to the panel is via a standard 24Vdc power supply, which is included in the panel's equipment. It is required to power the LCD panel from a guaranteed socket.

An Ethernet network socket with RJ45 port should be located near the panel for communication between the UPS and the LCD.