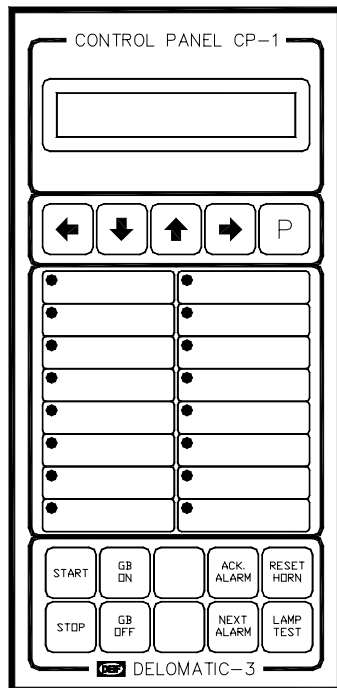


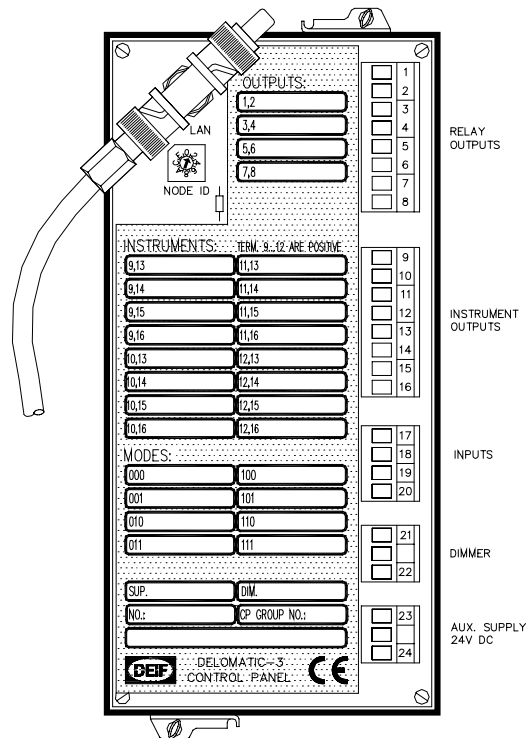
# Delomatic – Multi-function system

## Data CP-1, Control Panel

4921240046E



Front



Back

### CP-1, Control Panel:

- *The CP-1 is the operator interface to the Delomatic DGU*
- *Read out of 3-phase values*
- *System setup of timers and set-points*
- *Indication of alarms, breaker position etc.*
- *Push buttons for start/stop, GB on/off*

## Control Panel (CP-1)

The Control Panel (CP) is an extension module in addition to the Delomatic system and is connected via the ARC-network. The CP serves as operator interface and is handling all parameter settings, data presentation and alarm monitoring. The interface consists of 16 LEDs and one LCD display of 2 lines with 16 characters each and 15 push buttons. In addition 16 instrument outputs, 4 relay outputs and 3 inputs are available.

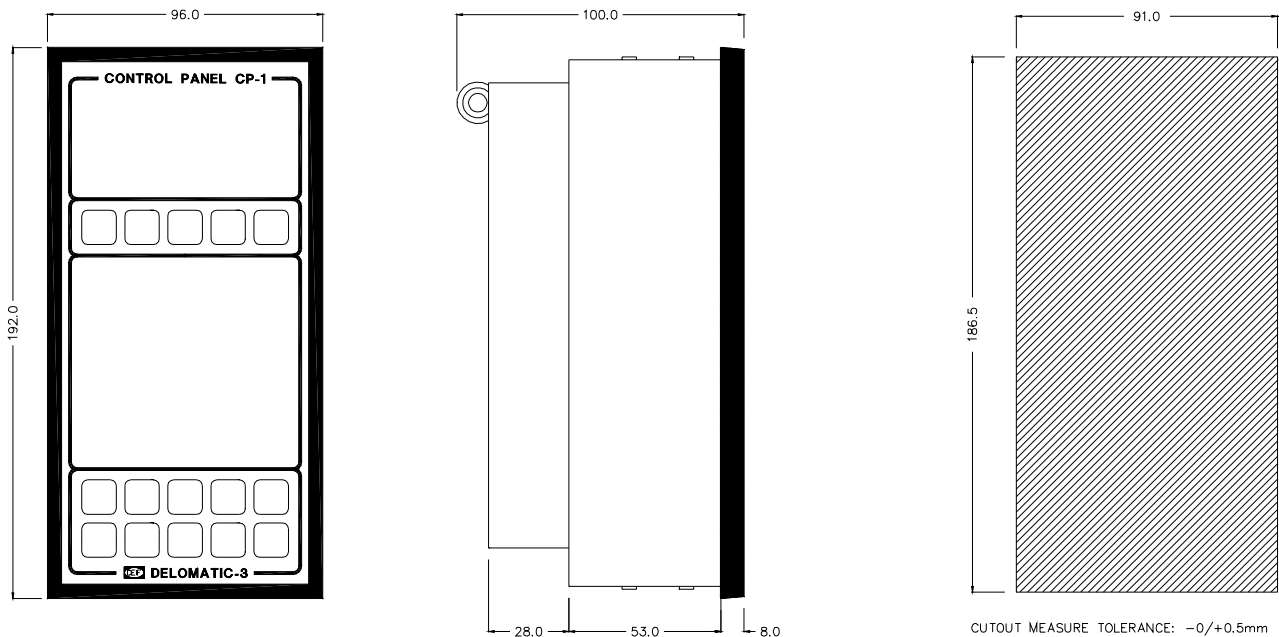
All values for the CP are provided through the ARC-network from the Control Module (CM) in the DELOMATIC system. This, and the fact that the CP has separate power supply, means that a break down of the CP will have no influence on the remaining DELOMATIC system.

It is possible to have up to 3 Control Panels on the ARC-network corresponding to the same CM (DGU). All 3 Control Panels are then operated individually, except for the change of settings which can be done at only one CP at a time.

In order to detect a supply fail on the CP (module) one of the four outputs is dedicated for signalling "CP OK" (Supply for CP OK = CC). Other outputs can be used for impulses for kWh-counters and similar non-essential signals.

The node ID on the control panel is the same as for the CM module (DGU) to which it corresponds.

The LEDs are used for eye catching presentation of status messages and fatal alarms while the display is used for presentation of all alarms and changing of set-points.



The 5 top push-buttons are used for editing and read out of settings and values. 3 of the 10 lower push-buttons are dedicated for alarm handling (horn reset, next alarm and alarm acknowledgement) and 1 for lamp test. The last 6 push-buttons are used for semi-automatic control of the system (start/stop of engine, generator breaker ON/OFF and similar operations).

The CP may be mounted on a max. 6 mm. thick mounting plate.

|                      |  |
|----------------------|--|
| Weight:              | 0.9 kg (2.0 lb)  |
| Supply:              | Externally supplied with 24V DC +30%, -25% (incl. peak-peak ripple).   |
| Protection:          | The CP is internally protected against voltage surges and transients higher than 32V. The nominal supply voltage may thus under no circumstances exceed 24V DC +30%. |
| External fuse:       | Max. 2A. Slow blow fuse.   |
| Power consumption:   | Typ. 3W      Max. 6W (from the 24V DC supply).   |
| LED:                 | 1...16 <u>Green/red/yellow</u> LEDs are controlled from the application software in the CM module and are predetermined for status and alarm presentation.           |
| Galvanic separation: | Test voltage: 2.0 kV/1.0 kV – 50 Hz – 1 min. according to GL, LR and DNV.  |
| Inputs:              | Only potential free contacts may be connected to the inputs.   |
| Dimmer input:        | Analog value 8...30V DC (0V corresponds to 30V DC and is equivalent to max. light) approx. 1 mA.   |
| Instruments output:  | Pulse width modulated and multiplexed, 0...1mA. Max. 3 m between Control Panel and instruments.<br><br>Max. load 1 kΩ.   |

|                   |  |              |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
|-------------------|--|--------------|------------|-------------|--|----------|-------------|--------------|--------------|-------------|-------------------|--------------|-------------|--|----------|-------------|
| Contact ratings:  | Max. AC: 250V – 5A – 1000VA<br>DC: 250V – 1A – 50W   |              |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
| Screw terminals:  | 2.5 mm <sup>2</sup> (single/multi-stranded).   |              |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
| Flammability:     | All plastic parts are self-extinguishing according to UL94-VO.   |              |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
| Environment:      | <table> <tr> <td>Temperature:</td> <td>Reference:</td> <td>+15...+30°C</td> </tr> <tr> <td></td> <td>Nominal:</td> <td>-10...+55°C</td> </tr> <tr> <td>(LC Display)</td> <td>Operational:</td> <td>-25...+60°C</td> </tr> <tr> <td>(Elect. circuits)</td> <td>Operational:</td> <td>-25...+70°C</td> </tr> <tr> <td></td> <td>Storage:</td> <td>-40...+70°C</td> </tr> </table> <p>Climate: Class JUE, according to DIN 40040.</p> | Temperature: | Reference: | +15...+30°C |  | Nominal: | -10...+55°C | (LC Display) | Operational: | -25...+60°C | (Elect. circuits) | Operational: | -25...+70°C |  | Storage: | -40...+70°C |
| Temperature:      | Reference:   | +15...+30°C  |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
|                   | Nominal:   | -10...+55°C  |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
| (LC Display)      | Operational:   | -25...+60°C  |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
| (Elect. circuits) | Operational:   | -25...+70°C  |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
|                   | Storage:   | -40...+70°C  |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
| Protection:       | IP52 (front, when mounted), IP20 (rear)  |              |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |
| Approvals:        | The Delomatic system is CE marked and type approved by LR, GL, DNV, ABS, BV, RINA and CNK.   |              |            |             |  |          |             |              |              |             |                   |              |             |  |          |             |

Errors and changes excepted.



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