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15. The general menu system

The DELOMATIC menu systems are operated via the DUs. They provide access to all programmable set points/timers, system selections and read-out of selected measured values.

The layout of the DU is illustrated below.



On the DU there is a number of buttons with a predefined function behind. From the left these are:

Info	: Opens the alarm Info window.
Ack	: Acknowledges an active alarm.
Jump	: Opens a jump window where the operator can jump to a selectable window.
Stop	: Gives a stop command.
Start	: Gives a start command.
CB OFF	: Gives a CB Off command.
CB ON	: Gives a CB On command.
VIEW	: Not applicable.
LOG	: Opens a log where the last 150 events are logged.
←	: Moves the focus to the left in the menu structure.
↓	: Moves the focus down in the menu structure.
↑	: Moves the focus up in the menu structure.
→	: Moves the focus to the right in the menu structure.
↵	: (ENTER).
Back	: Moves back to the previous position.
1 st PRIOR	: Changes the DGU to 1 st prior.

Stop, start, CB OFF and CB ON are only active in SEMI AUTO mode.

From the main view (see above) the operator can enter either the setup menu or one of the five view screens called:

- View 0 (V0)** – Shows a various number of windows showing measurements from SCM 0.
- View 1 (V1)** – Shows a various number of windows showing measurements from SCM 1.
- View 2 (V2)** – Shows a various number of windows showing measurements from SCM 2.
- View 3 (V3)** – Shows a various number of windows showing measurements from SCM 3.
- View 4 (V4)** – Shows a various number of windows showing measurements related to the PMS.

The configuration of the “VIEW” windows is done by DEIF according to project specifications. It is not possible to configure the windows through the display.

Display manoeuvring in the menus

The menu navigating starts from the fourth line in the entrance window and is carried out using the arrow, enter and back push-buttons.



The window above shows the project number in the first line, the software version and release in the second and the text SETUP MENU in the third line. In line four it is possible to select the SETUP menu or V0-V4:

Setup menu – accesses the following submenus:

Protection setup (PROT) Control setup (CTRL) Input/output setup (INPUT) System setup (SYST), see below.



To go to the setup menus, select SETUP by moving the cursor under SETUP with the arrow keys.

Press  (ENTER).

The setup menu has 4 submenus:

- PROT (protection)
- CTRL (control)
- INPUT (input/output)
- SYST (system)

PROTECTION (PROT)

Under the PROTECTION SETUP all the protection functions can be configured. To get to the PROT menu, use the arrow push-buttons to select PROT and press ENTER. The following display appears:



Each protection has a set point (SP) and a timer (DEL) that can be configured within defined limits. All parameters are password protected to prevent unauthorized personnel from changing the settings.

CONTROL (CTRL)

The CONTROL menu contains all parameters, limits and delays regarding the synchronisation and control. All parameters, limits and delays can be configured within defined limits. All parameters are password protected to prevent unauthorized personnel from changing the settings.

INPUT (INPUT)

The INPUT contains all parameters, limits and delays regarding different Inputs and outputs. All parameters, limits and delays can be configured within defined limits. All parameters are password protected to prevent unauthorized personnel from changing the settings.

SYSTEM (SYST)

The SYSTEM contains all the general parameters, limits and delays regarding different Inputs and outputs. All parameters, limits and delays can be configured within defined limits. All parameters are password protected to prevent unauthorized personnel from changing the settings.

If no actions have been taken within 3 minutes, the password entry will be deactivated, and a new password entry will be needed. Also the screen will change back to the main view.

Alarm function

The DGU will detect and display the enabled alarms which arise in the DU. An active unacknowledged alarm is indicated with a flashing red alarm led in the upper left corner of the DU. When the alarm is acknowledged but still active the alarm led will change to a steady red. To open the alarm press the INFO button on the DU. If more than one alarm is active, it is possible to toggle through the alarm list by using the “” or “” push-buttons on the display. The alarm information window displays one alarm at a time, and whether it is acknowledged or not. If it is unacknowledged, press the “ACK” push-button to acknowledge it. When the alarm is acknowledged and removed from the system the alarm will disappear from the list.

Log function

The log automatically saves the last 150 events overwriting the oldest when the log is full. The log can be opened by pressing the LOG button on the DU. It is possible to toggle through the list by using the “” or “” push-buttons on the display.

Special functions

Configurable alarm handling DM-4

For test purpose it is possible to activate a specific alarm in test mode menu no. 4200.

The alarm type and contact function is determined by a 2 cipher number.

The first cipher determines if it is an OC or a CC contact. The second cipher determines the sequence to be carried out.

- 0 = No Alarm
- 1 = DG Warning
- 2 = DG Block
- 3 = DG Prewarning
- 4 = DG Prot
- 5 = DG Short
- 6 = DG Shutdown
- 7 = DG Prot. TB

E.g.: 15 means closed contact gives the alarm (and sequence) DG Short.

Service menu

Status of timers, inputs and outputs can be monitored in the service menu no. 4980.