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## **Operator Guide**



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# **1** Document information

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1	1.0	30.05.2008
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## 1.1 Clarification of notation

#### NOTE:

This type of paragraph calls readers attention to a notice or related theme.

#### **CAUTION!**

This type of paragraph highlights a procedure, adjustment etc., which can cause a damage or unproper function of the equipment if not performed correctly and may not be clear at first sight.

#### WARNING!

This type of paragraph indicates things, procedures, adjustments etc. which need high level of attention, otherwise can cause personal injury or death.

## 1.2 Conformity Declaration

The following described machine complies with the appropriate basic safety and health requirement of the EC Low Voltage Directive No: 73/23 / EEC and EC Electromagnetic Compatibility Directive 89/336 / EEC based on its design and type, as brought into circulation by us.



## 2 Operator guide

## 2.1 Front panel elements



#### GEN-SET CONTROL BUTTONS

POSITION		DESCRIPTION
1	Start	<b>START</b> button. Works in MAN mode only. Press this button to initiate the start sequence of the engine. See the <u>Reference Guide</u> – "Engine start" chapter to learn more about start sequence.
2	Stop 0	<b>STOP</b> button. Works in MAN mode only. Press this button to initiate the stop sequence of the gen-set. Repeated pressing or holding the button for more than 2s will cancel current phase of stop sequence (like ramping the power down or cooling) and next phase will continue. See the <u>Reference Guide</u> – "Engine cooldown and stop" chapter to learn more about stop sequence.
3	<b>Fault</b> <b>Fault</b> <b>reset</b> <b>Constant</b> <b>FAULT RESET</b> button. Use this button to acknowledge alarms and deactivate the horn output. Inactive alarms will disappear immediat status of active alarms will be changed to "confirmed" so they will d as soon as their reasons dismiss. Learn more about alarms in the <u>F</u> <u>Guide</u> – "Alarm management" chapter.	
4	Horn reset	<b>HORN RESET</b> button. Use this button to deactivate the horn output without acknowledging the alarms.
5	Mode O←O	<b>MODE LEFT</b> button. Use this button to change the mode. The button works only if the main screen with the indicator of currently selected mode is displayed.
		<b>NOTE:</b> This button will not work if the controller mode is forced by one of binary inputs listed in the <u>Reference Guide</u> – "Operating modes" chapter.



6	Mode O → O	MODE RIGHTbutton. Use this button to change the mode. The button works only if the main screen with the indicator of currently selected mode is displayed.Note: This button will not work if the controller mode is forced by one of binary 
7	/0	<b>GCB</b> button. Works in MAN and TEST modes only. Press this button to open or close the GCB or start synchronizing manually. Note that certain conditions must be valid otherwise GCB closing resp. starting of synchronization is blocked. See the <u>Reference Guide</u> – "Connecting to the load" chapter for details.
8	I / 0	<ul> <li>MCB button. Works in MAN and TEST modes only. Press this button to open or close the MCB or start reverse synchronization manually.</li> <li>NoTE: Only in InteliCompact SPTM version.</li> <li>CAUTION! You can disconnect the load from the mains supply with this button! Be sure you know well what you are about to do!</li> </ul>

#### GEN-SET OPERATION INDICATORS

POSITION	DESCRIPTION
9	<b>General alarm</b> . This red indicator lights if at least one alarm is present in the alarm list. It blinks if a new alarm has appeared and is still not acknowledged.
10	<b>Gen-set voltage OK</b> . This green indicator lights if the generator voltage and frequency is in limits.
	<u>Note:</u> The limits for the generator voltage and frequency are given by setpoints in the Gener Protect group.
11	<b>GCB position</b> . This green indicator blinks if the forward sychronizing is currently in progress; otherwise it shows current status of the generator circuit breaker according to the feedback input.
12	Bus under voltage. This green indicator shows if the bus is under voltage or not.
13	<b>MCB position</b> . This green indicator blinks if the reverse sychronizing is currently in progress; otherwise it shows current status of the mains circuit breaker according to the feedback input.
	<u>Note:</u> Only in InteliCompact SPTM version.
14	<b>Mains voltage OK</b> . This green indicator lights if the mains is evaluated as healthy. See the <u>Reference guide</u> – "AMF function" chapter for details about mains evaluation.
	<u>Note:</u> Only in InteliCompact SPTM version.
15	<b>Mains failure</b> . This red indicator lights when the mains failure is detected and after the gen-set has started and is about to take the load it lights permanently until the mains failure disappears.
	<u>Note:</u> Only in InteliCompact SPTM version.

DISPLAY AND DISPLAY CONTROL BUTTONS



POSITION		DESCRIPTION		
16		Graphic B/W display, 128x64 pixels		
17	Page	<b>PAGE</b> button. Use this button to switch over display pages. See next chapter for details about display pages and screens structure		
18	<b>UP</b> button. Use this button to move up or increase value.			
19	•	<b>DOWN</b> button. Use this button to move down or decrease value.		
20	Enter	<b>ENTER</b> button. Use this button to finish editing a setpoint or moving right in the history page.		

### 2.2 User interface modes

There are two modes of the user interface:

- User mode allows the user to go through all screens with measurements and alarms. The
  - button does not work, i.e. setpoints and history pages are not accessible.
- Engineer mode gives the qualified person full access to all pages and screens.

See the chapter "User interface mode selection" in <u>Reference Guide</u> to learn how to switch the user interface mode.

### 2.3 Display screens and pages structure

The displayed information is structured into "pages" and "screens". Use PAGE button to switch over the pages.

- 1. The page *Measurement* consists of screens which display measured values like voltages, current, oil pressure etc., computed values like i.e. gen-set power, statistic data and the alarm list on the last screen.
- 2. The page *Setpoints* contains all setpoints organized to groups and also a special group for entering password.
- 3. The page *History log* shows the history log in the order that the last record is displayed first.

#### NOTE:

The picture below shows the structure of displayed data. The contents of each particular screen may be slightly different according to the firmware branch and version.





STRUCTURE OF THE DISPLAYED DATA (BASIC)



## 2.4 View measured values



- Press button to confirm the change or to discard it and return to the list of setpoints of the selected group.
- 5. Continue with change of another setpoint or press **L** to return to the list of groups.



LIST OF GROUPS OF SETPOINTS





**EDITING A SETPOINT** 

## 2.6 Browsing the history log

#### Page

1. Press button repeatedly until you see the main history log screen with the reason column and the latest record.

#### NOTE:

The records are numbered in reverse order, i.e. the latest (newest) record is "0" and older records have "-1", "-2" etc.

Enter

- 2. Use the **button** to move over columns within the selected record. Pressing it repeatedly will move cyclically through the columns, i.e. after last column the first one will be displayed.
- 3. Use buttons and to move over the records.
- Press button to select another display page.



MAIN HISTORY LOG SCREEN

#### NOTE:

The first history record after the controller is switched on, programmed or watchdog reset occurs contains diagnostic values instead of operational. Some fields in these records seem to have nonsense values. Do not take these values into account.



## 2.7 Browsing alarms

The Alarmlist and ECU Alarmlist are displayed on the last two screens in the measurement page. If the main screen is displayed then the Alarmlist screen will appear automatically always when a new alarm occurs. It can be also displayed manually as described in the chapter "View measured values" in <u>Reference Guide</u>.



Use the to move over the alarms in the ECU Alarmlist. Details of the selected alarm are displayed in the bottom line.



Press 🔯 button to reset alarms.

- Active alarms are displayed as white text on black background. It means the alarm is stil active, i.e. the appropriate alarm conditions are still present.
- **Inactive alarms** are displayed as black text on white background. It means the alarm is no more active, i.e. the appropriate alarm conditions are gone.
- Not confirmed alarms are displayed with an asterisk. It means the alarm is still not acknowledged (confirmed).

Active confirmed alarm	llanm is rn Fuel Emorgon	t Level u Stor	3 —	Number of alarms
Active uncorfirmed alarm	Sd Stop	Fail		
Inactive unconfirmed alarm				
AlarmList				
Active but confirmed alarm	Ecu Ala	rmList		
Selected alarm indicator	>EngOil	Press		
Active confirmed alarm,	000225	(00E1h	L)	
DTC numeric form	*000600	(00258	h)	
Inactive unconfirmed alarm,				
DTC numeric form	FC 100	OC 1	FMI	1
Selected alarm details				

#### NOTE:

The ECU AlarmList is visible only if an ECU is configured.

## 2.8 Entering the password

The password must be entered prior adjusting setpoints that are password-protected. Password is located in the first group of setpoints and the way how to enter or change password is similar to change of setpoints as described in the "Setpoints" chapter in <u>Reference Guide</u>. <u>Note:</u>

It is possible to change only passwords of the same or lower level than actually entered password!



#### NOTE:

**Lost password?** Display the information screen which contains the serial number and a password decode number as is described in the chapter below. Write down both numbers and send a request to retrieve the passord to your local distributor containing these two numbers. You can also save and send an archive instead.

## 2.9 Controller information screen

- 1. Press the button repeatedly until you will see the main controller screen with the mode selector and kW analog meter.
- 2. Hold down the button and simultaneously press the button with to see the controller information screen.
- 3. The information screen will disappear automatically after 5 secs
- 4. Press the button again within 5s to switch to language selection screen.
- 5. Press the button again to switch to the user interface mode selection screen. This screen also contains serial number and password decode number.
- 6. Next pressing of the button witches back to the information screen.
- 7. Press the button to get back to the controller main screen.





STRUCTURE OF THE DISPLAYED DATA (ADVANCE)

The information screen contains following information:

- Controller Name
- Firmware identification string
- Serial number of the controller
- ESF version
- Firmware version, application version
- Application type
- Branch name

#### NOTE:

ESF version is shown only when electronic engine is configured.



## 2.10 Controller language selection

There are two languages available in the controller. Default languages are English and Chinese. The languages can be changed or modified during the configuration in LiteEdit. Please see the LiteEdit documentation for details.

To switch the controller language:

- 1. Display the information screen as described above.
- 2. While the information screen is still displayed, press the **Lun** button.
- 3. Language menu will appear, use or buttons to select the desired language.
- Press to confirm the selection.

### 2.11 User interface mode selection

To switch the User interface mode, follow instructions below:

- 1. Display the information screen as described above.
- 2. While the information screen is still displayed, press the **use** button twice.
- 3. User interface mode menu will appear, use **use** or **use** buttons to select the desired mode (User or Engineer).
- 4. Press 📥 to confirm the selection.

### 2.12 Display contrast adjustment



- 1. Press the **use** button repeatedly until you will see the main controller screen with the mode selector and kW analog meter.
- 2. Hold down the button and simultaneously press button **button** or **button** repeatedly to increase or decrease the contrast.