



-power in control

OPERATOR'S MANUAL



GC-1F Gen-set Controller

- Push-buttons
- LEDs
- Icon list
- Display readings



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1. About this document

General purpose

This document is the Operator's Manual for DEIF's generator controller GC-1F. The document includes information about push-buttons, LEDs, display readings and icon list.

The general purpose is to give the operator important information to be used in the daily operation of the unit.



Please make sure to read this manual before working with the GC-1F controller and the gen-set to be controlled. Failure to do this could result in damage to the equipment or human injury.

Intended users

This Operator's Manual is mainly intended for the daily user. On the basis of this document the operator will be able to carry out simple day-to-day procedures.

Contents/overall structure

The document is divided into chapters, and in order to make the structure simple and easy to use, each chapter will begin from the top of a new page.

2. Warnings and legal information

Legal information and responsibility

DEIF takes no responsibility for installation or operation of the engine set. If there is any doubt about how to install or operate the engine controlled by the unit, the company responsible for the installation or the operation of the set must be contacted.

The units are not to be opened by unauthorised personnel. If opened anyway, the warranty will be lost.

Electrostatic discharge awareness

Sufficient care must be taken to protect the terminals against static discharges during the installation. Once the unit is installed and connected, these precautions are no longer necessary.

Safety issues

Installing the unit implies work with dangerous currents and voltages. Therefore, the installation should only be carried out by authorised personnel, who understand the risks involved in working with live electrical equipment.



Be aware of the hazardous live currents and voltages. Do not touch any AC measurement inputs as this could lead to injury or death.

Factory settings

The unit is delivered with certain factory settings. Given the fact that these settings are based on average values, they are not necessarily the correct settings for matching the individual engine. Thus precautions must be taken to check the settings before running the engine.

Definitions

Throughout this document a number of notes and warnings will be presented. To ensure that these are noticed, they will be highlighted in order to separate them from the general text.

Notes



The notes provide general information, which will be helpful for the reader to bear in mind.

Warnings



The warnings indicate a potentially dangerous situation, which could result in death, personal injury or damaged equipment, if certain guidelines are not followed.

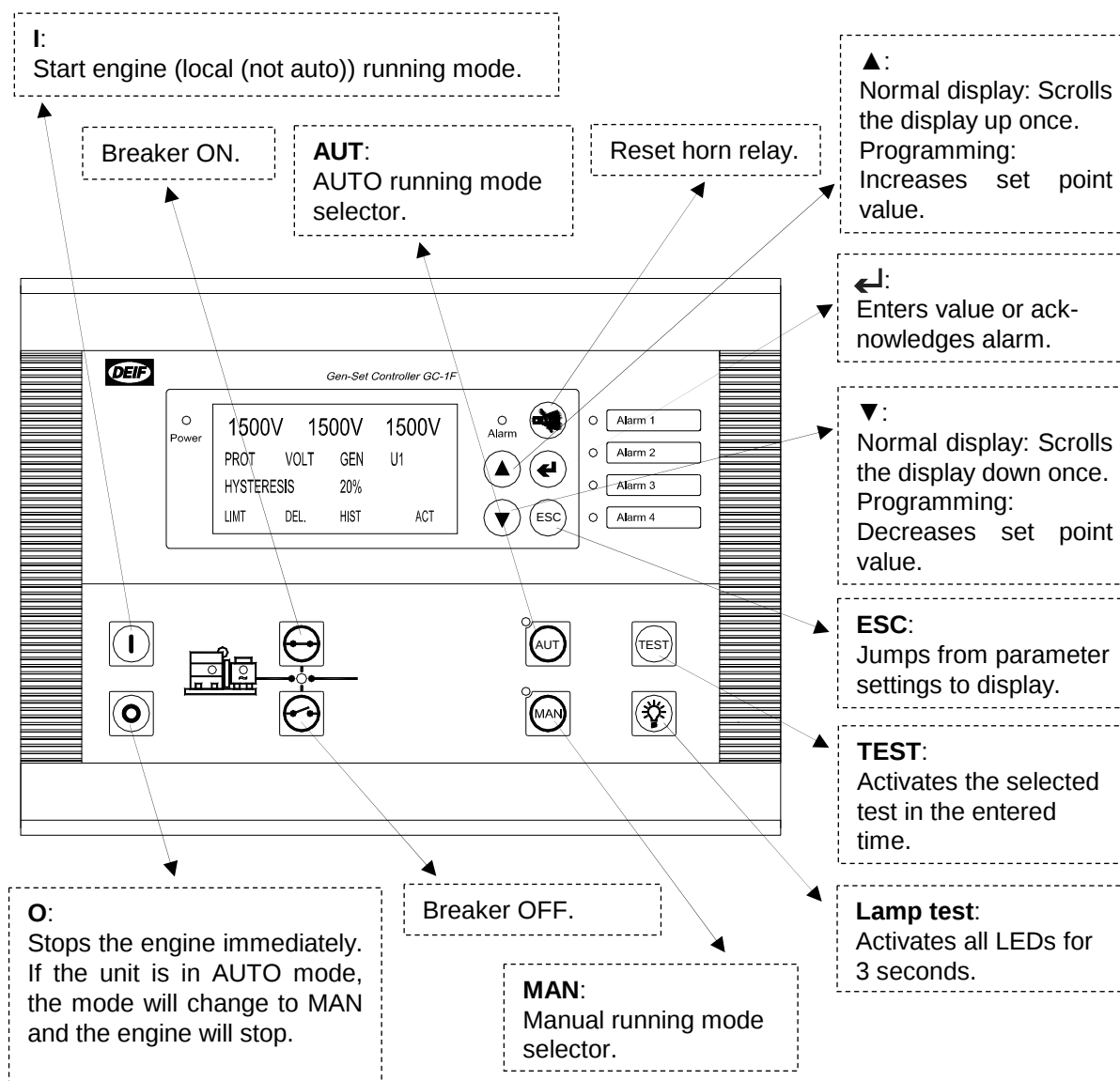
3. Push-buttons, LEDs and display

Unit

Front dimensions H x W	160 x 220 mm (6.30" x 8.66")
Unit depth	54 mm (2.13 ")

Push-button functions

The push-buttons on the unit have the following functions:



I: Start engine (local (not auto)) running mode.

O: Stops the engine instantaneously. If the unit is in AUTO mode, the mode will change to MAN and the engine will stop.

AUT: AUTO running mode selector.

MAN: Manual running mode selector.

TEST: Initiates the test sequence selected for the push-button.



Lamp test: One push will illuminate all LEDs for 3 seconds.

ESC: Jumps from parameter settings to display. Removes pop-up messages.



Horn reset: Resets horn relay. Extra function: Press and hold button 2 sec. to see alarm list.



Normal display: Scrolls the display up once. **Programming:** Increases set point value.



Normal display: Scrolls the display down once. **Programming:** Decreases set point value.



Enter/acknowledge: Enters value/acknowledges alarm.

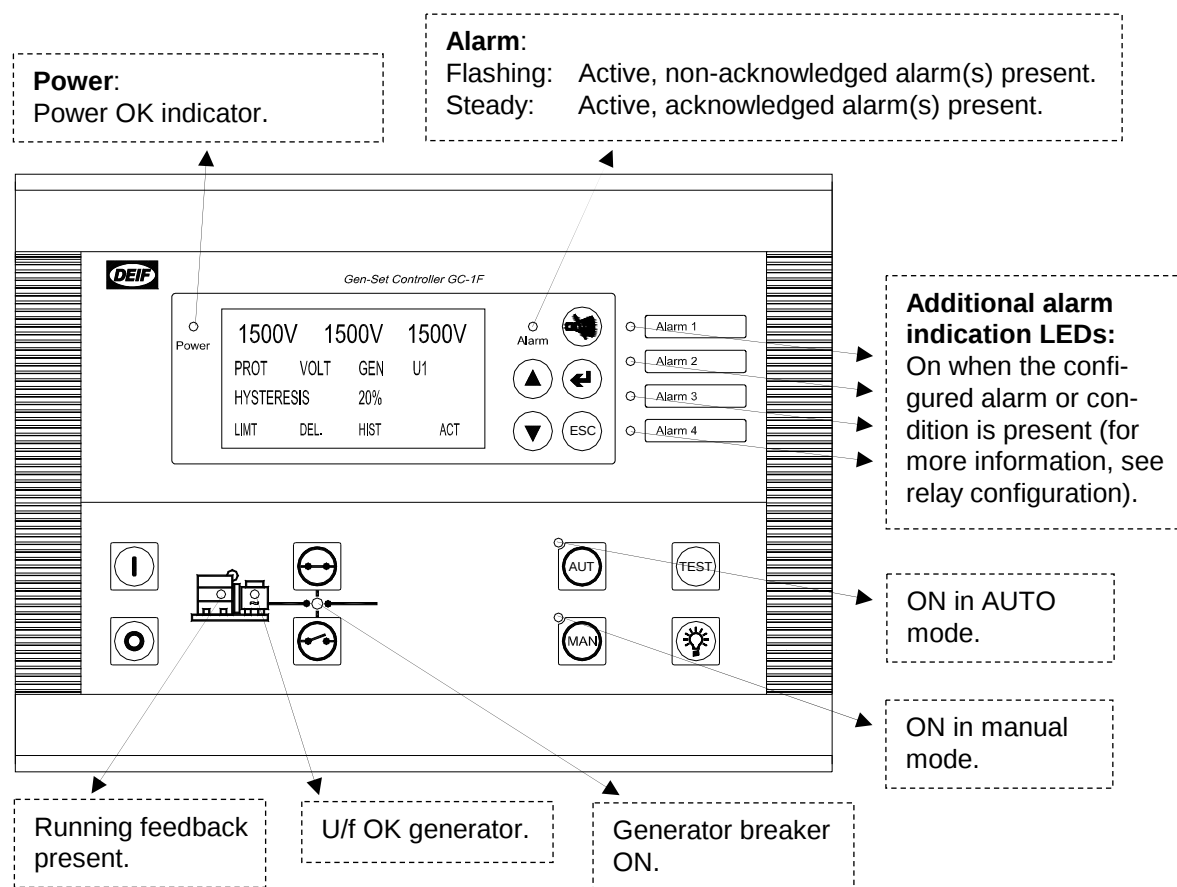


Breaker closes:



Breaker opens:

LED functions



Power: Power OK indicator.

Alarm: Flashing: Active, non-acknowledged alarm(s) present.
Steady: Active, acknowledged alarm(s) present.

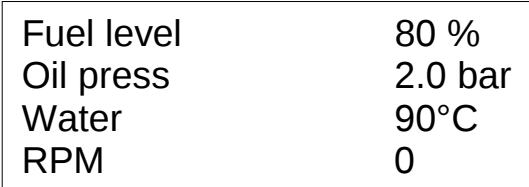
Additional alarm indication LEDs: Flashing: Active, non-acknowledged alarm(s) where output A or B is configured to LED 1, 2, 3 or 4.
Steady: Active, acknowledged alarm(s) where output A or B is configured to LED 1, 2, 3 or 4.

Display functions

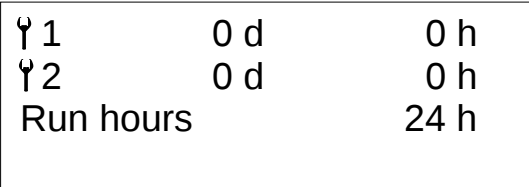
The display indicates both readings and alarms. Illustrated below are examples with icons and English language.



Type, Hardware and software version.

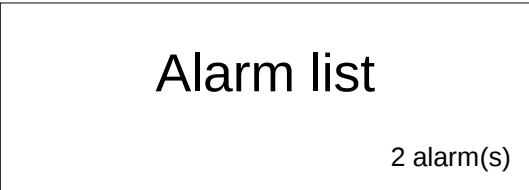


Fuel level, Oil pressure, water temp. and RPM.

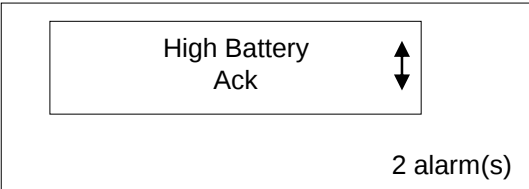


Service timer 1 and 2.

Run hours.



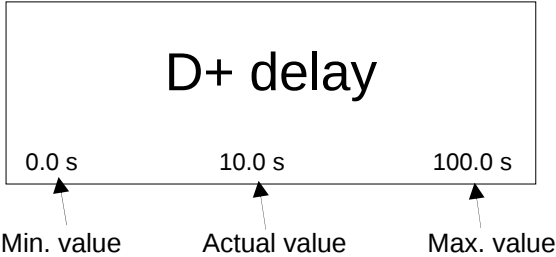
Press to enter the list of active alarms.



Active alarm list. The alarm list pops up automatically, when an alarm appears. When the arrow is present, more alarms are active. Press to scroll through the list. Exit the list by pressing ESC.



Press to enter the parameter setting.



Parameter example: D+ delay setting. Use or to scroll through the settings list. If change of settings is necessary, press and enter the password. Then use or to change values. Use ESC to leave settings.



The available parameters depend on the set options. Some parameters can only be changed using the PC utility software (USW) for GC-1F. The parameter list will automatically be abandoned, if no button is pressed during a 30 sec. period.



For detailed information about changing parameters and setup, please see the Installation Instructions i Reference Handbook.

DEIF A/S reserves the right to change any of the above