



701 Manual keystart



JO Båtelektrisaka Amira AB Björlandakiles Småbåtshamn SE-423 61 Torslanda, SWEDEN



46-(0)31 92 59 17

46-(0)31 92 59 17 FaxInternet: www.jobatel.com 070-692 59 17 Mobil E-mail: info@jobatel.com



terförs.IMSAB Guldringen 1 SE-426 52 Västra Frölunda, SWEDEN



46-(0)31 29 06 40 © 03.2004 IMSAB 46-(0)31 29 48 29 Fax Internet: www.imsab.se 070-76 00 480 Mobil E-mail: Info@imsab.se

701- MANUAL START

Manufacture DEEP SEA ELECTRONICS PLC



- Manual keystart
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection

DESCRIPTION

The Model 701 is a **Manual Engine Control Module** designed to control the engine via a key switch and pushbuttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and indicating the engine failure by LED, giving true, firstup fault annunciation.

Operation of the module:

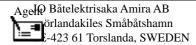
- 1. Select manual run (📳)
- 2. Depress pre-heat button (n) for required length of time
- 3. Press START (I) to crank engine In the 'O' position the DC supply is removed from the module and the run output is deenergised.

The module is powered up when is selected. Operation of the pre-heat button is only possible when in this position.

An LED tell-tale indicates preheat operation. Once the required pre-heat duration has elapsed, the pre-heat button should be released.

Once • is selected and the Start button is pressed and maintained, the engine fuel system is energised. The 'Crank' output is then energised and the starter motor operated, disengaging automatically when the engine fires or when the 'Start' button is released. The protection hold-off timer is then initiated.

Operation of any of the following alarms (which are close on fault) will cause the run output to deenergise:





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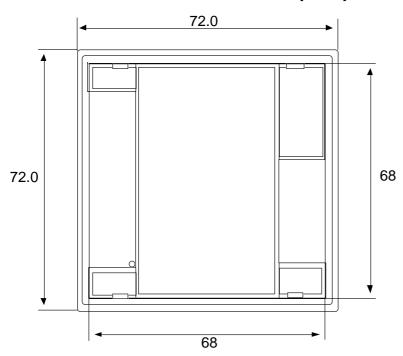


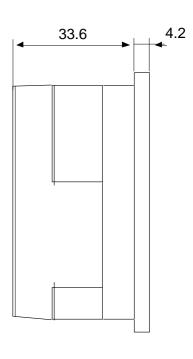
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed

This will remove the fuel supply from the engine and bring it to rest. Each alarm has its own LED indicator and once activated no further alarm conditions will be accepted. The selected by a switch for either 50Hz or 60Hz nominal operation (57Hz and 68Hz trip respectively)

During engine cranking and for a short time afterwards the **protection hold-off timer** (10 seconds) is active and the relevant alarm inputs are inhibited. This enables the engine to

CASE DIMENSIONS (mm)





Imperial measurements

72mm = 2.83"

68mm = 2.68"

33.6mm = 1.32"

4.2mm = 0.16"

alarm output and relevant LED will remain active until the unit is reset by turning the switch to the 'O' position.

Overspeed Protection

Overspeed protection is derived from the generator Hz output. The overfrequency circuit monitors the generator Hz output and will shut down the engine immediately if a pre-set frequency level is exceeded. This trip level is

start and achieve normal running conditions. Once the timer has expired the inputs are enabled providing normal protection from the module.

Charge Failure warning is also provided by monitoring the WL terminal on the charge alternator.



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SPECIFICATION

DC Supply: 8 to 35 V Continuous.

Cranking Dropouts: Able to survive voltage

dips during cranking. This is achieved without the need

for internal batteries.

Alternator Input Range: 15 - 305 V AC

RMS (+20%)

Alternator Input Frequency: 50 - 60 Hz

at rated engine speed. (Minimum 75V AC) Overspeed: nominal frequency +14% (+24% Overshoot)

Start Output: Solid State 1.2A negative

grounding terminal

Run Output: Solid State 1.2A negative

grounding terminal

Pre-heat Output: Solid State 1.2A

negative grounding terminal

Dimensions: 72mm X 72mm X 38mm

(2.83" x 2.83" x 2.5") (Excluding Keyswitch) Cut-out 68mm x 68mm

(2.68" x 2.68")

Operating Temperature Range: -30 to

+70°C

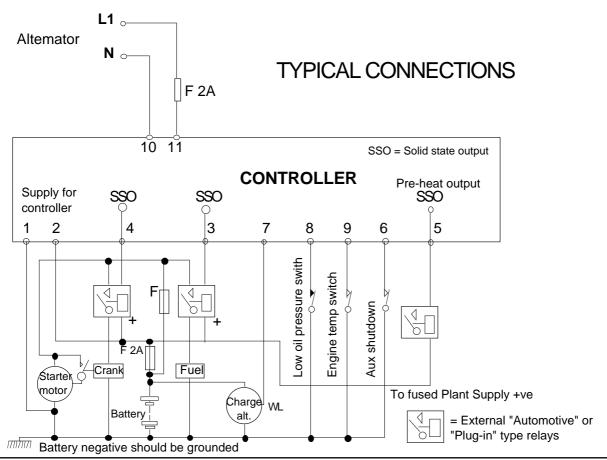
Installation: Front panel mounting via suitable cutout. Retaining clips supplied. Cable connections via screw clamp type terminals Calibration: Speed trip setting switch accessible from rear of module. Deep Sea Electronics plc reserve the right to change specification without notice.

ORDERING INSTRUCTIONS

701 – Manual keystart

701 HC - Manual keystart with tamperproof

hours counter



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