

# XTANTIS

## AMF

### GENERATOR AUTO START CONTROLLER

#### DESCRIPTION

The Smartgen Model 620 is an Automatic Mains Failure Control Module monitors the mains supply and automatically starts and stops the engine. It indicates status and fault conditions, automatically shutting down the engine and indicating the engine failure by means of an LCD display and an appropriate flashing LED on the front panel. Selected timers and alarms can be altered by the customer from the front panel.

#### Easy Push Button

Operation of the module is via pushbutton controls mounted on the front panel with AUTO, MANUAL, STOP/RESET, FUNCTION, TEST and START pushbutton. The first two pushbuttons feature LED 'selected' indications. Further pushbuttons provide LCD DISPLAY SCROLL and SET functions.

#### Microprocessor Control

The module features microprocessor control and a comprehensive list of timers and pre-configured sequences. This allows demanding specifications to be achieved.

#### Metering

The 620 module provides metering via the LCD display with the following instrumentation displays, accessed via the LCD DISPLAY SCROLL push-buttons: -



- Mains volts L1-N, L2-N, L3-N
- Mains volts L1-L2, L2-L3, L3-L1
- Mains Amps L1, L2, L3
- Mains frequency Hz
- Generator volts L1-N, L2-N, L3-N
- Generator volts L1-L2, L2-L3, L3-L1
- Generator Amps L1, L2, L3
- Generator frequency Hz
- Load current I1, I2, I3 A
- Engine speed RPM
- Engine oil pressure
- Engine temperature
- Plant battery volts
- Engine hours run
- Generator kW
- Generator Cos.
- Generator kWh

#### Event Log

The instrumentation displays are supplemented further which shows the last 99 start and shutdown events along with date and time of shutdown.

#### Analogue Inputs

Provided for oil pressure and engine temperature. These connect to conventional engine mounted resistive sender units (such as VDO and Datcon Type)

#### Relay Outputs

Provided for fuel solenoid output, start output, close mains output, close status/generator output and four configurable outputs. The configurable relay functions can be selected from a range of different functions, conditions or alarms.

#### Multiple alarm channels

Provided to monitor the following: -

- Under/over mains volts
- Under/over generator volts
- Mains miss phase
- Generator miss phase
- Mains error phase sequence
- Generator error phase sequence
- Load over-current
- Under/over mains frequency
- Under/over generator frequency
- Under/overspeed
- Charge fail
- Emergency stop
- Low oil pressure
- High engine temperature
- Fail to stop
- Fail to start
- Low/high DC battery volts
- Loss of speed sensing signal

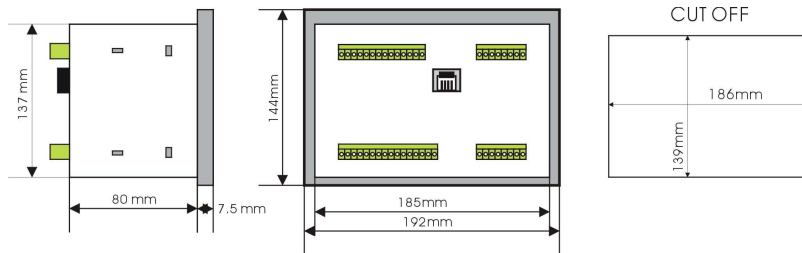
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## GENERATOR AUTO START CONTROLLER ..... continued

### SPECIFICATION

<b>DC Supply</b>	8 to 35	<b>Max. Operating Current</b>	250mA at 12V and 200mA at 24V
<b>Alternator Input Range</b>	50V (ph-N) to 300 V (ph-N) AC	<b>Magnetic Pick-up Voltage Input Range</b>	± 3V to 70V peak
<b>Magnetic Input Frequency</b>	10, 000 Hz (max)	<b>Start Relay Output</b>	16 Amp at DC ast supply voltage
<b>Fuel Relay Output</b>	16 Amp DC at supply voltage	<b>Close Mains Relay Output</b>	16 Amp 250 VAC
<b>Auxiliary Relay Outputs</b>	Auxiliary output 1 and 3: 10 Amp DC at DC at supply voltage  Auxiliary output 2: 16 Amp DC at Emergency Stop voltage  Auxiliary output 4: 16 Amp 250 VAC	<b>Close Gens Relay Output</b>	16 Amp 205 VAC
		<b>Charge Fail/Exitation Range</b>	0 V to 35 V
		<b>Operating Temperature Range</b>	0 - +50 °C

### CASE DIMENSIONS



### TYPICAL DIMENSIONS

