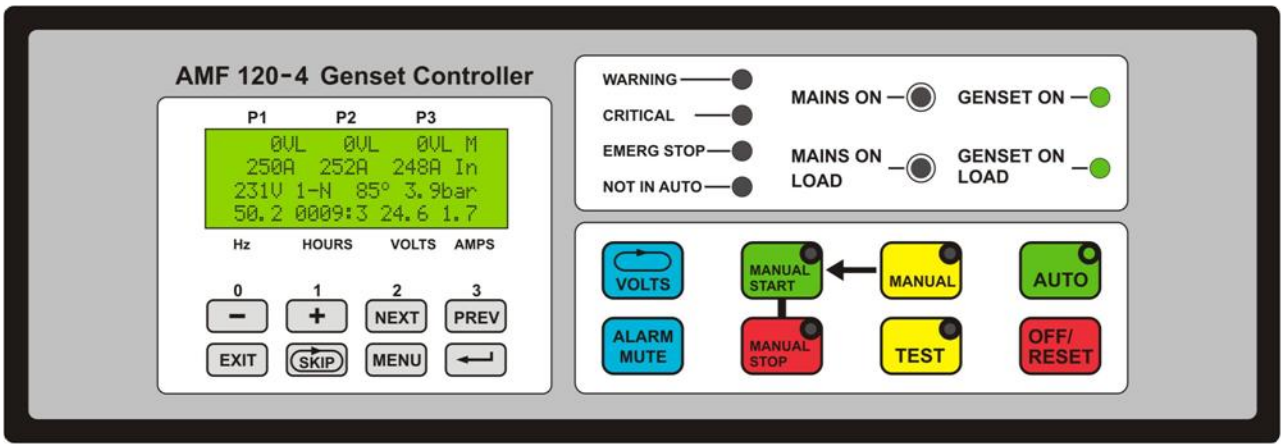
AMF120-4 with LCD Display



The AMF120-4 is the fourth generation of the original AMF120 genset controller manufactured in 1987 and combines ease of use with extensive features. The AMF120 series have proved to be very reliable and some units manufactured in 1989 are still in service after 20 years!

FEATURES

- Setting of parameters via built in keypad and display – no external keypad or PC required.
- Plug out – plug in compatible with the AMF120 Mk3.
- The same panel cut-out as the AMF120, AMF120 Plus and AMF120 Mk3.
- Optional high speed, portable printer for printing the Setup or Event Log on site.
- Supply voltage of 4.0 – 32 V DC (no auxiliary battery required).
- Optional **internal** GSM modem for the SMS of Alerts, Alarms and Warnings to three cellphones and remote starting of the Genset.
- A South African product, designed for local conditions by a company who have been manufacturing AMF controllers since 1987.
- Repair facilities in South Africa.
- Logging of up to **450** events with date and time.
- The high accuracy Real Time Clock (RTC) is standard and not an optional extra.
- Optional **internal** MODBUS interface for BMS.
- Remote RUN/ STOP input for Pump Stations ensuring the set only runs when required.
- Mains voltage (3 phases) and phase rotation fault.
- Alternator voltage / current (3 phases), frequency and phase rotation fault.
- Analog oil pressure and engine temperature.
- Battery volts, charging amps and engine running hours.
- Simultaneous display of Genset parameters.

Design and Manufacture by:

Reid & Associates cc

PH: 031 205 3329 FAX: 031 205 4060

Rev. 8

AMF120-4 with LCD Display

DIGITAL INPUTS

- Low Oil Pressure
- High Engine Temperature
- Low Radiator Water Level
- No Fuel
- Low Fuel
- Low Bulk Tank
- Charging Alternator (D+)
- Remote Run/ Stop - pumping stations
- Emergency Stop

ANALOG INPUTS

- Mains Voltage 3 phases (Phase – N)
- Alternator Voltage 3 phases (Phase – N)
- Alternator Amps 3 phases (Phase – N)
- Oil Pressure (VDO sensor)
- Engine Temperature (VDO sensor)
- Battery Volts
- Battery Charging Amps

RELAY OUTPUTS

- Mains On Load
- Genset On Load
- General Alarm
- Crank
- Fuel
- Pre-heat/ Spare

TYPICAL EVENT LOG

AMF120-4 V1,12 V01,3
Reid & Associates cc (c) 2008 S/N: 124008
Casino DBN set #3

Standby Warning OFF 11:07:25 on 23/06/08
Standby Warning ON 11:02:58 on 23/06/08
> Low Fuel

Genset OFF 11:01:49 on 23/06/08
MAINS ON Load 11:00:46 on 23/06/08
Genset OFF Load 11:00:44 on 23/06/08

Volts MAX: P1= 232V P2= 233V P3= 232V
Volts MIN: P1= 228V P2= 227V P3= 230V
Amps MAX: P1= 179A P2= 189A P3= 182A
Freq. MIN: 49.0Hz Freq. MAX: 52.2Hz
Oil MIN: 4.2bar Temp. MAX: 88^{0}C
Batt. MIN: 12.7VDC Batt. MAX: 14.2VDC
Air ACT: +21°C

MAINS Normal 10:59:43 on 23/06/08
Genset ON Load 10:59:31 on 23/06/08
Genset ON 10:59:29 on 23/06/08

> P1=211V P2=211V P3=211V
> 50.2Hz 4.5bar 35^{0}C 12.8V Air: +18^{0}C

Start Attempts = 1 10:59:19 on 23/06/08
MAINS OFF Load 10:59:09 on 23/06/08
MAINS Fail 10:59:09 on 23/06/08

> P1= 0V P2= 0V P3= 0V

MAINS ON Load 10:56:16 on 23/06/08
MAINS Normal 10:56:16 on 23/06/08

Mode=AUTO 10:56:16 on 23/06/08
OFF/ Reset 12:55:48 on 07/06/08

Log Deleted 12:54:57 on 07/06/08
End of Event log

TYPICAL SMS

Casino DBN set #3	← Location of the genset.
SMS from AMF120-4	
AUTO-Mains FAIL	← Controller Mode: OFF, AUTO, MANUAL or TEST and Mains status.
M= 0VL 0VL 0VL	← Mains voltages (3 phases) and 'L'=low or 'H'=high voltage.
Genset ON load	← Mains or Genset ON load .
Warning-Low Fuel	← Warning detail.
G=232V 233V 230V	← Genset voltages (3 phases).
49.9 056:4 13.9 0.0	← Frequency, hour meter, battery voltage and battery charge amps.