

Protection - Control - Metering



EAOM-6



EAOM-7



EAOM-71



EAOM-72F

EAOM-6
EAOM-7
EAOM-71
EAOM-72F

The EAOM-6, 7, 71 and 72F controllers offer automatic starting, protection, control and metering of generator sets. Dual level passwords insure against tampering. High bright display and LEDs offer great visibility.

The EAOM-7 also measures load current and power. The EAOM-7 and 72F incorporate temperature, oil pressure and fuel level measurement (from analog resistive transducers)

The technology used by Z-TRAUQ INC. displays exact measurement.

Use the PC based software to communicate directly or over modem.

General Specifications:

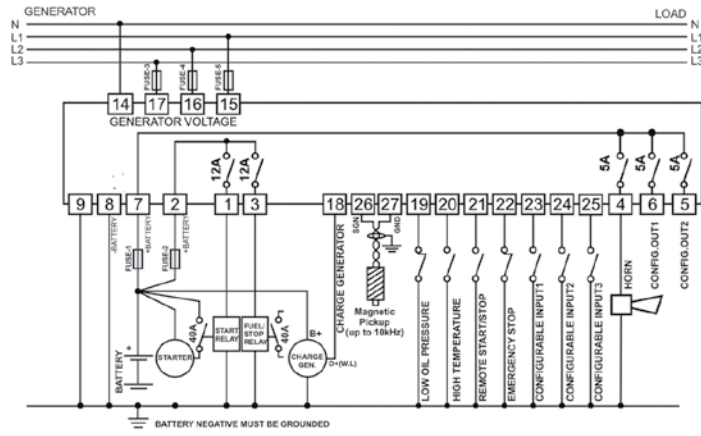
Housing & Mounting	96 x 96 x 115 mm (excl. 13mm connector) for EAOM-6, 7, 71 144 x 204 mm for model EAOM-72F	
Protection	NEMA4X (IP65 front, IP20 rear)	
Operating / Storage Temp.	-25°C to +70°C / -40°C to +85°C	
Supply Voltage	12Vdc (8Vdc to 16Vdc) or 24Vdc (16Vdc to 32Vdc) switch selectable	
Supply Voltage Measurement	8.0 to 40.0 Vdc	
Mains Voltage Measurement	35 to 300 Vac L-N Accuracy: 1% FS, Resolution : 1Vac	
Generator Current Input	0 to 5Aac from CT (EAOM-7, 71 & 72F)	
Measurement Accuracy	Volts 1% Frequency: 0.25% Amps (EAOM-6, 71 & 72F): 1%	
Cranking Dropouts	Battery voltage can be 0Vdc for max. 100 ms during cranking (battery voltage should be at least nominal voltage before cranking)	
Generator Speed	Measurement from generator voltage or magnetic pickup	
Alternator Frequency Range	10 - 110 Hz @ 35-300VAC L-N	
Magnetic Pickup Freq. Range	35 Hz - 10 kHz @ 3-35 Volts peak	
Communication Interface	RS-232 serial communication	
Inputs	Emergency Stop (NC) Oil pressure switch (NC) Remote start/stop (NO)	3 x configurable (NO) Temperature switch (NO) 10 - 650 Ohms (9S-2 only)
Output Relays	Start 12 A @ 12 / 24Vdc Fuel 12 A @ 12 / 24Vdc	Alarm 5 A @ 12 /24Vdc 2 x configurable 5A @ 12/24Vdc
LED Display 4 digits, 7 segments	Generator volts phase-to-phase & phase-to-neutral Generator frequency Load current IL1A (EAOM-7, 71) Load current IL2A (EAOM-7) Load current IL3A (EAOM-7) Failure info	Generator kVA (EAOM-7, 71 & 72F) Temperature (EAOM-71 & 72F) Oil pressure (EAOM-71 & 72F) Fuel level (EAOM-71 & 72F) Engine RPM Battery volts Engine run time
Failure Indicators	Failed engine start Engine high temperature Engine over/under speed Low oil pressure	Charging fail Generator voltage failure 3 x configurable
Status Indicators	Power on Engine start Engine stop	Engine running Generator is ready for the load Program mode
Information Alarms	Low battery voltage Emergency stop	Maintenance due Over current (EAOM-7, 71 & 72F)

Features:	Failure Monitoring:
Automatic engine start/stop	Engine temperature
Automatic shutdown on fault	Oil pressure
LED status and fault indication	Over / Under speed
Alternator volts & frequency measurement & monitoring	Charging alternator
Battery voltage measurement & monitoring	Low battery voltage
Push-button operation	Voltage
Over/under speed warning & shutdown	Weak battery alarm
Remote start / stop input	Emergency stop
Three user configurable inputs	Monitors:
Two configurable relay outputs	Alternator volts and frequency
Speed sensing from alternator frequency or magnetic pickup	Temperature, pressure and fuel level (EAOM-71)
Preheating	Battery charging & volts
Provides charge alternator excitation current	Load current (3 phase in EAOM-7, single phase in -71)
Fully programmable	Engine RPM
RS-232 communication	Engine run time
	Engine Power
Controls:	
Starter motor	Over / Under speed
Preheating	Alarm silence
Engine fuel supply or engine stopped	

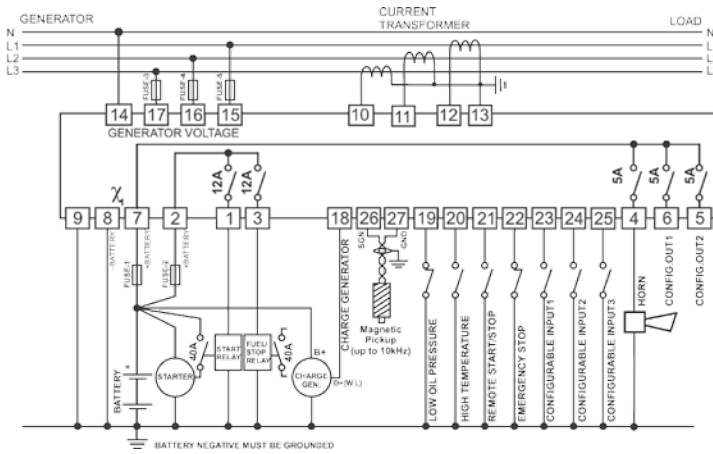
Connection Diagrams

Actual wiring diagrams may differ. Always refer to the Owner's manual for the wiring instructions of your particular controller.

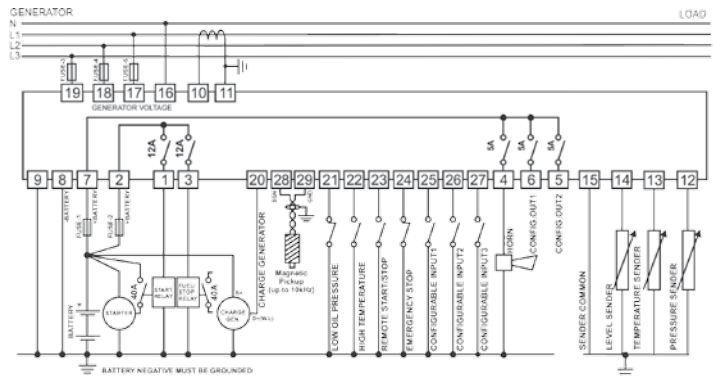
EAOM 6



EAOM 7



EAOM 71



EAOM 72

