

## AUTOMATIC TRANSFER SWITCH

**Protection - Control - Metering - Load Transfer**

**EAOM-19**



The EAOM-19 provides integrated generator set control, protection, metering and automatic load transfer. If a fault is detected, the engine will automatically shut down and the failure will be indicated by a relevant fault LED and audible alarm. The unit detects the loss of any phase of the mains supply and is able to start the generator and transfer the load. When the mains supply is restored within the pre-set limits, the load is transferred back to the mains supply and the generator is shut down in a controlled manner. The EAOM-19 offers manual, fully automatic and test mode operation allowing the generator to run without removing the load. The mode of operation can be changed at any time without affecting the operational status of the generator or load connection. The technology used by Z-TRAUQ INC. allows exact measurement, set point adjustment and timing functions via the front panel.

### General Specifications:

Housing & Mounting	72 x 72 x 95 mm (including connector )	
Protection	NEMA4X (IP65 front, IP20 rear)	
Operating / Storage Temp.	-25°C to +70°C / -40°C to +85°C	
Supply Voltage	8 to 32Vdc	
Current consumption	240mA	
Battery Voltage Measure.	8.0 to 32.0 Vdc Accuracy: 1% FS, Resolution : 0.1V	
Mains Voltage Measurement	35 to 300 Vac L-N RMS @15.6 - 99.9Hz Accuracy: 1% FS, Resolution : 1Vac	
Generator Voltage Measurement	35 to 300 Vac L-N RMS @15.6 - 99.9Hz Accuracy: 1% FS, Resolution : 1Vac Selectable single or three phase	
Measurement Accuracy	Volts 1% Frequency: 0.25%	
Generator speed (frequency)	15.6-99.9Hz @ 35 - 300 Vac L-N Accuracy: 0.25% FS, Res.: 0.1Hz	
Cranking Dropouts	Battery voltage can be 0Vdc for max. 100 ms during cranking (battery voltage should be at least nominal voltage before cranking)	
Charge generator excitation	220mA max 4W	
Inputs	Oil pressure switch (NC) Temperature switch (NO)	2 x configurable (NO)
Output Relays	Start 16 A @ 32Vdc Fuel 16 A @ 32Vdc Alarm 16 A @ 32Vdc	Mains contactor 5A@250vac Generator contactor 5A@250vac
LED Display 4 digits, 7 segments	Mains voltage (phase to phase & phase to neutral) Alternator frequency	Alternator voltage Battery voltage Program parameters
Failure Indicators	Failed engine start Engine high temperature Generator over speed Low oil pressure	Charging Generator voltage Battery voltage 2 x configurable
Status Indicators	Program mode Test/Off/Auto Manual engine start Manual engine stop	Mains contactor energized Mains contactor de-energized Generator contactor energized Generator contactor de-energized
Information Alarms	Engine failed to stop	

### Features:

Protection/Control/Metering	Push-button operation
Fully programmable	Two user configurable inputs
Automatic shutdown on fault	Manual/Auto/Test modes
LED status and fault indication	Automatic engine start/stop/ load transfer

### Failure Monitoring:

Low battery voltage	Oil pressure
Charging alternator current	Engine temperature
Alternator voltage & frequency	

### Controls:

Automatic engine start	Load transfer on mains failure
Starter motor	Load transfer to mains
Alarm silence	Engine fuel supply or stop engine

### Monitors:

Mains voltage (phase - phase & phase - neutral)	
Battery voltage	Alternator volts and frequency
Error indication	Program parameters

**TRANSFER**

877-798-7287

**CONTROL**

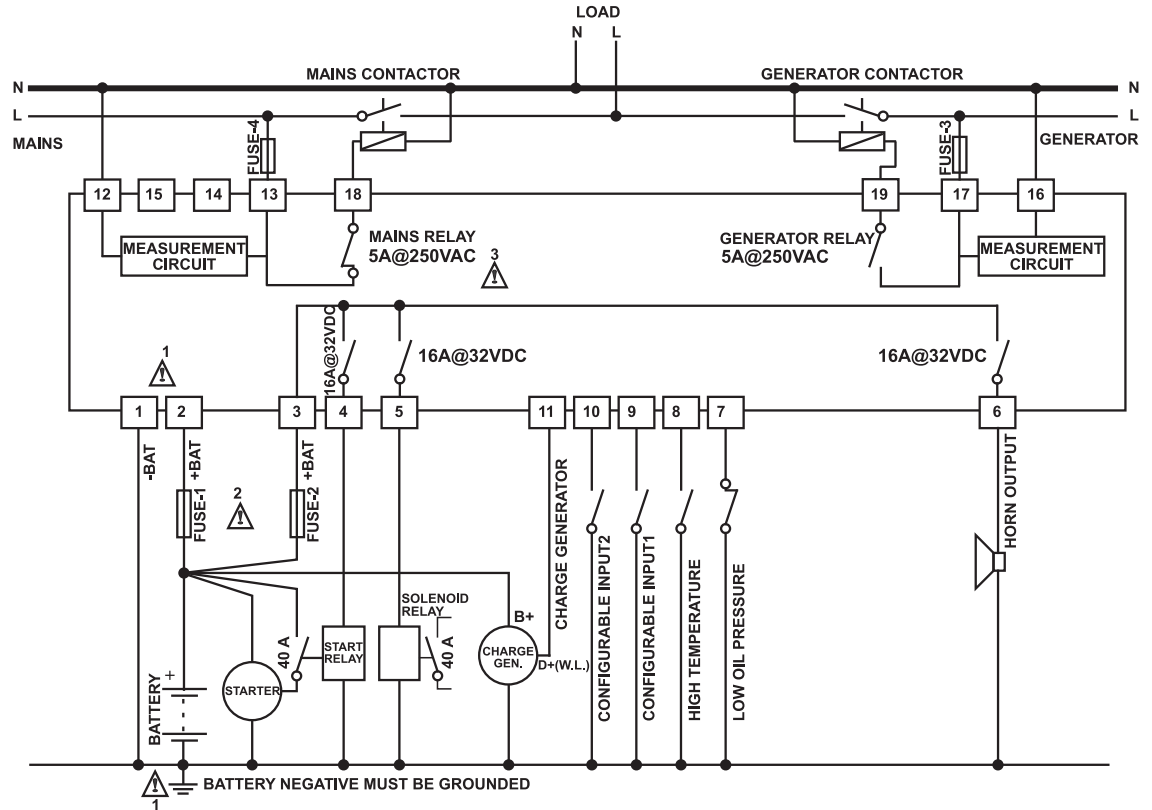
**MONITOR**

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**PROTECT**

**Connection Diagrams**  
 Actual diagrams may differ. Always refer to the Owner's Manual for the wiring instructions of your particular controller.

## Single Phase Connections



## Three Phase Connections

