

KEY START CONTROLLERS

EAOM-3

Protection - Control



The EAOM manual engine start units are designed to control the engine via a three position key switch on the front panel OFF (O), PREHEAT (I) and START (II). The unit is used to start and stop the engine and provides automatic shutdown on detection of a fault condition. LEDs provide automatic indication of fault conditions and engine failure, giving true 'first-up' fault annunciation.

Optional over speed protection, hour meter and stop button.

General Specifications:

Housing & Mounting	72 x 72 x 107 mm (excl. 13mm connector)
Protection	IP30 at front panel, IP20 rear
Operating / Storage Temp.	-25°C to +70°C / -40°C to +85°C
Supply Voltage	8-32Vdc
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
Outputs	Alarm relay 5 A @ 12 /24Vdc Fuel relay 12 A @ 8 - 32Vdc Preheat PNP (250mA) Tachometer analog output 0 - 1mA
Failure Indicators	Engine high temperature Engine over speed (optional) Low oil pressure Charging failure Auxiliary shutdown
Status Indicators	Preheat on Protection on
Information Alarms	Continuous
Preheat Duration	10 seconds
Protection On Delay	20 seconds
Generator Over Speed Shutdown	10 - 110 Hz selectable via rear panel trim pot (if Generator voltage) 35 - 10 kHz selectable via rear panel trim pot (if Magnetic pickup)
Analogue Calibration	Adjustment via rear panel trimmer
Hour Meter (optional)	7 digit electro- mechanical to 999999.9 hours

Ordering Information:

For standard industrial unit order:
EAOM-3

Option	Suffix
Over speed sensing - Generator voltage	ALT
Over speed sensing - Magnetic pickup	MAG
Hour Meter	HM
Stop Button & Auxiliary Input	STP

Example:

Manual key switch start and engine controller
c/w hour meter, stop button, auxiliary input and
over speed sensing from magnetic pickup;
order : **EAOM-3-MAG-HM-STP**

**Electrical Wiring for EAOM-3-MAG
Speed Sensing from Magnetic Pickup**

