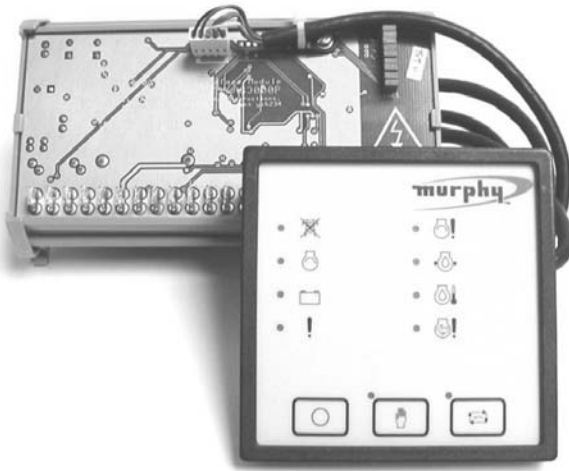


AS3000 Automatic Engine Controller

ys6235
revision C, 19th January 2006
catalogue section 40



- **Auto crank disconnect**
- **Multi-attempt starting**
- **Fault warning and shutdown**
- **Reduced panel wiring**
- **Simple set up**

Description

The AS3000 provides automatic start up, fault monitoring and shutdown control for engine driven applications. The unique two-module design, with a single interconnecting lead, provides reduced panel wiring and installation. This simple, compact controller is ideally suited to small engine and generator panels.

Key features:-

- Multi-attempt cranking with auto crank disconnect
- Automatic or manual modes, selected by front facia pushbuttons. Control inputs for optional security keyswitch.
- **User interface module:** front of panel mounted, 92mm square DIN cut-out. Environmental sealing to IP65
- **Panel interface module:** DIN rail mounted PCB tray.
- Fault shutdown and indication system. Low oil pressure, high coolant temperature and auxiliary inputs are fitted to both modules, allowing use with engine mounted fault switches or facia mounted Swichgage® units.
- Speed sensing (auto crank disconnect and overspeed shutdown) is via magnetic pickup, generator AC or remote contact. Speed calibration is automatic and adjustment free.
- Mains charger/charge alternator fail warning LED.
- Easy setup of operating options using circuit board links.
- Generator AC Hz meter output, 0 – 5V.

Warranty

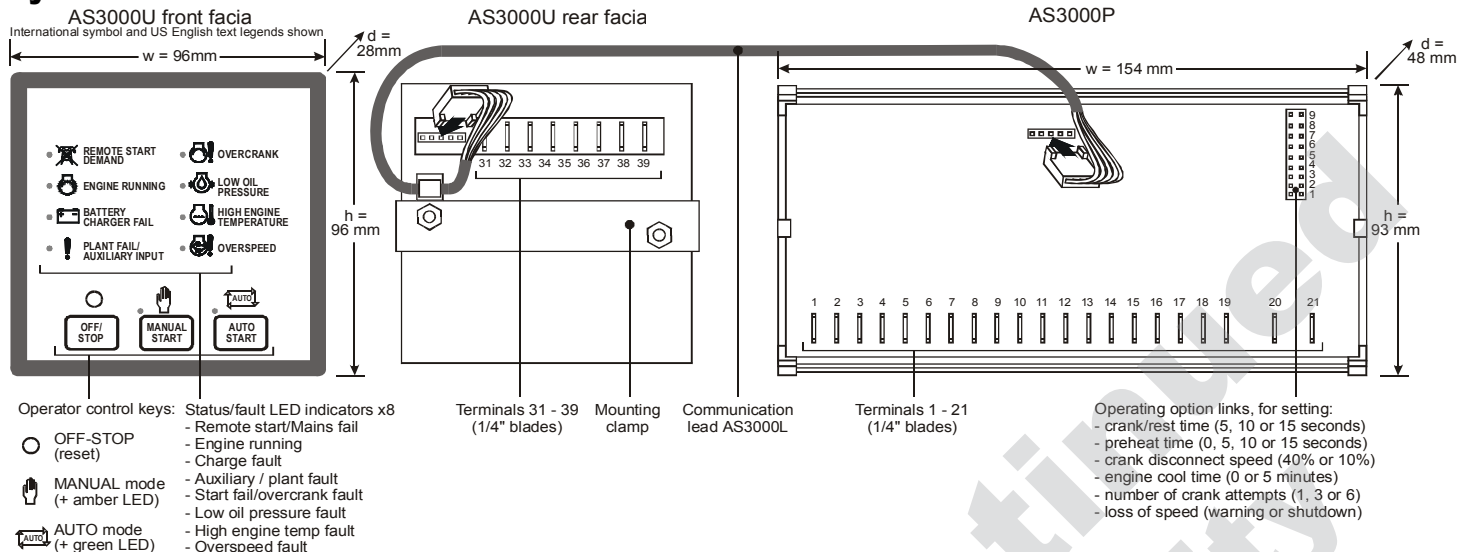
A two year limited warranty on materials and workmanship is given with this Murphy product. Details are available on request and at www.fwmurphy.co.uk/warranty.



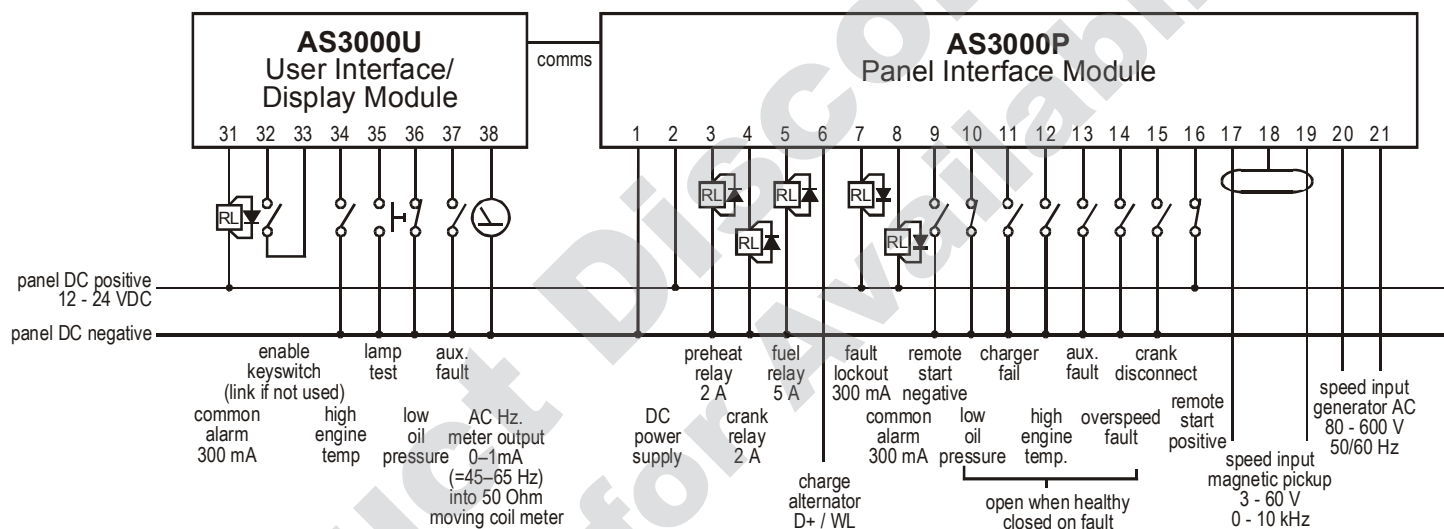
Product specification

Power supply:	
continuous voltage range	8 – 35 VDC
brown out voltage	< 5 VDC for 2 secs (recovery to 8V)
blackout voltage	0V for 50mS (from 10V, recovery to 5V)
overvoltage withstand	50 VDC for 5 seconds (to SAEJ1810 load dump immunity)
reverse voltage withstand	100 VDC continuous
current consumption (standby)	50mA
current consumption (max)	500mA (plus output loads)
DC inputs:	
oil pressure, coolant temp, auxiliary and charger faults	closed to negative DC ($\pm 3V$) on fault
remote start positive	open from positive DC to start
remote start negative	close to negative DC ($\pm 3V$) to start
lamp test	close to negative DC ($\pm 3V$) to activate
DC input protection	± 50 VDC max.
AC inputs:	
magnetic pickup	3 – 60 VAC, 50Hz – 10 kHz.
generator AC	600 VAC max (L-L or L-N), 50/60 Hz.
Outputs:	
fuel	positive DC (semiconductor), 5A max.
crank, preheat	positive DC (semiconductor), 2A max.
common alarm, fault lockout	negative DC (semiconductor), 300mA max.
generator Hz. meter	0 – 5VDC (@ 45–65Hz), 10mA max
Physical:	
dimensions	see overleaf
operating temperature	-10 to +65°C
relative humidity	95% @ 60°C
environmental protection	AS3000U front: IP65, NEMA4
vibration	ISO 88528 pt.9, & 3 axis 3g
weight	AS3000U: approx. 250g AS300P: approx. 160g

System overview



Electrical connection



How to order

Stock no. Unit type

Complete systems:-

- 41.70.0092 AS3000 system, front facia symbols
- 41.70.0093 AS3000 system, front facia US English

Components:-

- 41.70.0095 AS3000U user interface, international symbols
- 41.70.0096 AS3000U user interface, US English text
- 41.70.0097 AS3000P panel interface module
- 41.70.0098 AS3000L communication lead



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USA - ISO9001:2000 FM 28221
UK - ISO9001:2000 FM 29422

In order to consistently bring you the highest quality, full featured products, we reserve the right to change our specifications and designs at any time.