

# AUTOMATIC ENGINE CONTROL FOR DIESEL/GAS ENGINES

The ECU-9988NC engine control provides complete automation and safety monitoring of a gas or diesel engine. The ECU-9988NC controls the starter and fuel thus completely taking the operator out of the picture. A built in speed switch controls both starter disengagement and overspeed protection.

**ECU<sup>®</sup>-9988NC**

**ONE VERSION FOR  
12 AND 24 VDC**

**APPLICATIONS:** Generator Control Panels, Automatic Engine Systems

## FEATURES:

- Loss of Magnetic Pickup detection during both cranking and running
- Single or Multi-crank modes are field adjustable
- Built in speed switch
- Grounded or positive HWT/LOP inputs
- Low oil pressure and high water temp override during cranking
- Wide temperature range -40C to +85C
- Epoxy encapsulated module for excellent field reliability
- LEDS with auto/manual lamp test
- Relay switched outputs with auto reset overcurrent protection for external annunciator systems.



## ECU<sup>®</sup>-9988NC A COMPLETE AUTOMATIC ENGINE CONTROL

The ECU-9988NC automatically cranks, starts and monitors an engine for Overcrank, Overspeed, High Water Temperature and Low Oil Pressure. Any crank timing sequence is accomplished by using the multiple or single crank modes in conjunction with the timer adjustments. A built in speed switch uses a magnetic pickup to monitor engine speed for crank disconnect and overspeed. The bypass timer/logic assures Low Oil Pressure and High Water Temp override during the crank period and an additional adjustable period after crank disconnect. The ECU-9988NC expands to as many faults as required by using the Engine Alarm Input/Output. The ECU-9988NC monitors the Magnetic Pickup signal for problems during both cranking and running. If a problem is detected the engine will shutdown and the Overcrank and Overspeed LED's will both turn on. New to the 9988NC is an electronic protection for overcurrent of the annunciation output relays. In the event of an overcurrent the unit will self protect. After power is removed for about 30 seconds the unit will reset. The unit also has future opportunities for field firmware upgrades, electronic set points and RS485 communications options via a COMM port using a special adaptor.

ECU<sup>®</sup> IS A REGISTERED TRADEMARK OF ENGINEERING CONCEPTS UNLIMITED, INC.

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Specifications Subject to Change Without Notice

ECU<sup>®</sup>-88NC 0715

