

AUTOMATIC ENGINE CONTROL FOR DIESEL/GAS ENGINES

The ECU®-9911 engine control provides complete automation and safety monitoring of a gas or diesel engine. The ECU®-9911 controls the starter and fuel thus completely taking the operator out of the picture. Several functions are included such as Glow Plug, Cool Down and Warm Up.

ECU®-9911

**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
- All electronic adjustment
- 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
- LEDES with automatic amp test
- Delay on Start, Glow plug, Cooldown, Warm-up



ECU®-9911 A COMPLETE AUTOMATIC ENGINE CONTROL

The ECU®-9911 covers just about all the essential engine control functions. It also covers the automation of Delay on Start, Glow Plugs, Warm up and Cool down.

The ECU®-9911 automatically cranks, starts and monitors an engine for Overcrank, Overspeed, High Water Temperature and Low Oil Pressure and Loss of Pickup. Depending how the unit is adjusted via a converter and Lap Top or Desktop Computer the unit will do a glow plug delay then crank and start the engine. After a warm-up period the unit will go to full throttle. If the Auto mode started the unit a Cooldown cycle will occur. The unit draws **no power** in the standby position.

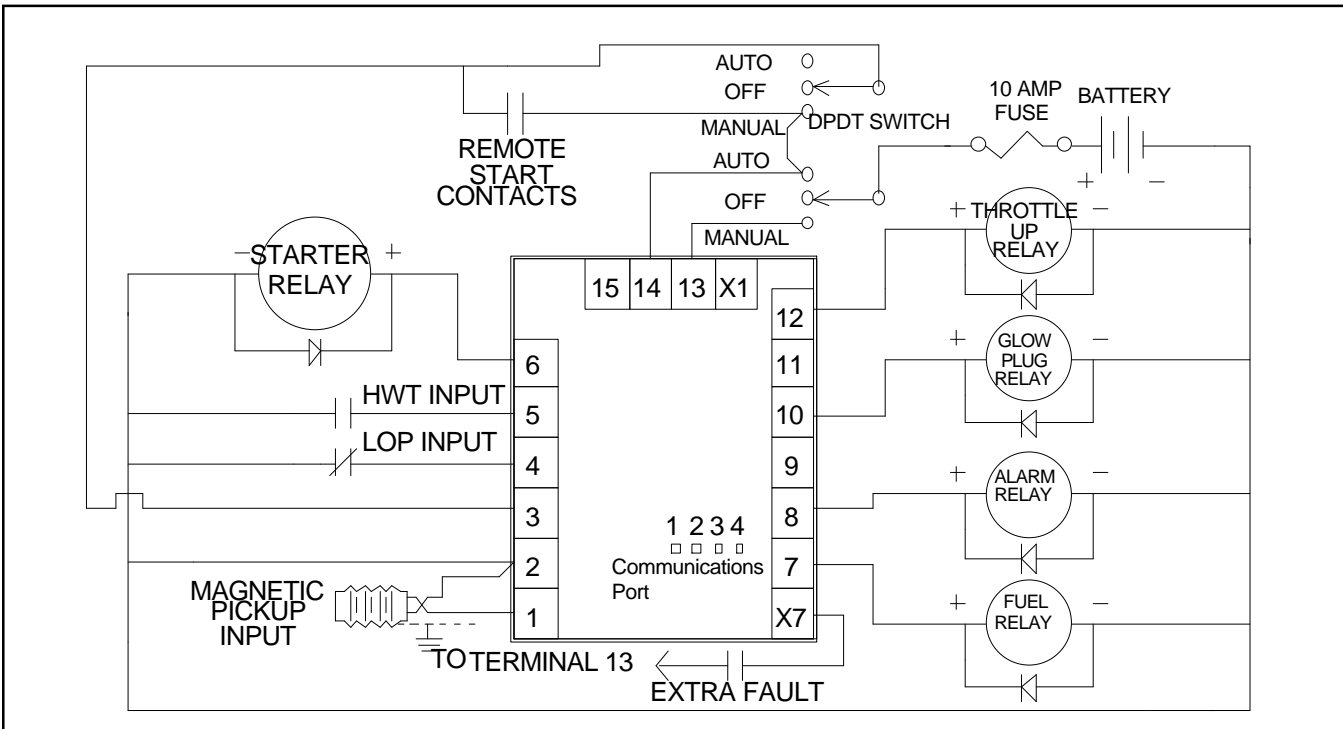
If a magnetic pickup problem is detected the engine will shutdown and the Overcrank and Overspeed LED's will both turn on.

ECU® IS A REGISTERED TRADEMARK OF
ENGINEERING CONCEPTS UNLIMITED, INC.

P.O. BOX 250 - 8950 TECHNOLOGY DRIVE - FISHERS, IN 46038

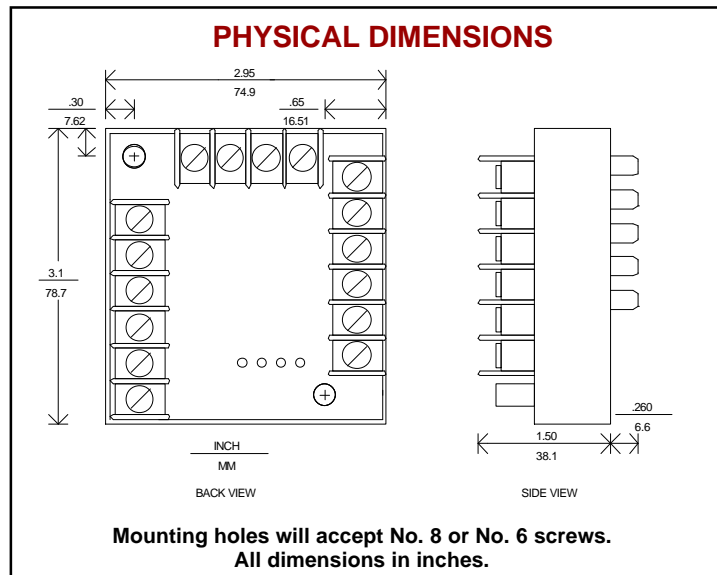
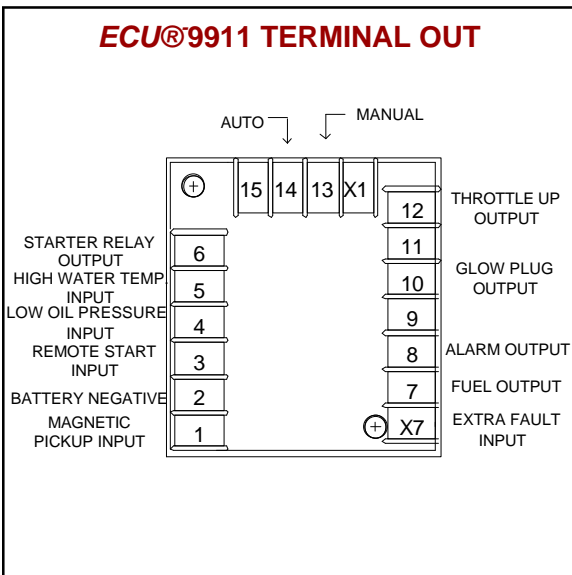
Voice: 317-849-8470 Fax: 317-849-6475 E-Mail: sales@ecu-engine-controls.com

**SAMPLE ECU®-9911 APPLICATION:
AUTOMATIC ENGINE CONTROL OF DIESEL/GAS ENGINE**



The above illustrates the ECU®-9911 engine control with an energized to run engine. Placing the control switch in MANUAL or closure of the Remote Start Contacts while in AUTO initiates the following: A programmable delay on start time occurs thus buffering against false starts then the glow plug timer followed by engine cranking and starting. For a programmable time the engine stays at low idle allowing warmup then the engine goes to full throttle. If Auto initiated the starting event then removal of the remote start contact will cause the unit to go into a cooldown cycle by de-energizing the Full throttle solenoid. After the cooldown timer is expired the engine will then be shutdown and the control will be de-powered. For details on programming see the ECU-9911 programming guide. Units can be factory programmed if desired. While connected to the unit via a converter the unit will readout several engine parameters and offer some control options on a Laptop or Desktop Computer using the supplied software.

- SPECIFICATIONS:**
- VOLTAGE RANGE - 9 TO 28 VOLTS
 - MAGNETIC PICKUP - 250-8500 HERTZ
 - STARTER AND FUEL OUTPUT - 5 AMPS MAX
 - THROTTLE UP,GLOW PLUG,ALARM AND FUEL LOAD (TOTAL) - 2 AMP MAX



**ORDERING INFORMATION:
ORDER BY SPECIFYING: ECU®-9911**

**ECU® IS A REGISTERED TRADEMARK OF
ENGINEERING CONCEPTS UNLIMITED, INC.**