K27 Engine Controller

Diesel Engine Management System

easy to use, safe, reliable, reduces running costs

Auto start on 2 floats.	Pump flow protection input.	RPM Reading overspeed shutdown.	100 hour run timer.	Engine hours run count.	Battery voltage monitor/display.
Run to fixed speed with PWM.	Low oil gauge & shutdown.	High coolant temp gauge & shutdown.	J1939 CANBUS ready.	Configurable Digital Inputs.	IP66 Control module UV stable.
MODBUS / Telemetry ready.	Fault history logger.	Low Radiator level shutdown.	Pump pressure protection input.	Loss of prime protection input.	fuel level reading and protection.

- Engine Autostart and Stop on multiple triggers via float switches, Pressure, Flow Switch, SAT/GSM modems, PLCs and RTU's.
- Bi-directional remote telemetry connection to a PLC and SCADA networks and to a website via Satellite or GSM modem.
- Bright graphical display showing all engine/equipment data and warning/faults.
- Complete asset protection on all sensors with built in 'Failsafe' protection. Includes low radiator coolant level detection.
- Connects to various analogue sensors, ie: 4-20mA pressure or flow sensors, including resistive sensors.
- Multiple sensor readout, with built in separate adjustable bypass timers and slush timers.
- Robust IP66 control module in a powder coated enclosure with tempered see through glass. Will not yellow in exposed sunlight.
- Automatic engine speed control to fixed speed, via CANBUS J1939 or MODBUS. (Optional extra, Pulse Width Modulation via electronic actuator on mechanical engine also available). Can also be controlled remotely
- Save on fuel, running and maintenance costs. Fuel Level monitoring.
- Built in warmup and cooldown timers.
- Programmable 100hour run timer.
- One panel to suit mechanical engines or electronic CANBUS J1939 engines.
- Tier 4 emissions ready.
- In built data logging on all equipment faults.
- Engine Running output.
- Easy to set up and program. Will permit future software upgrades via a computer.

Easy to read display, large icons and characters. The LCD can be viewed in direct sunlight

Sturdy enclosure with die cast hinges and latch.

Product Description

Reduce Your Operating Costs & Increase The Engine's Life Cycle.

The K27 engine auto-start controller is designed for the off-road stationary diesel engine market. The software is application driven. The controller's primary function is the management of your diesel engine and the equipment it is driving. The software and hardware is designed to lower the cost of running and owning your asset. It will reduce your fuel and maintenance costs but most of all increase the engine's life cycle.

The K27 is used in the following applications: waste water de-watering, irrigation pumping, power generation, air compressors, high pressure cleaners, lighting towers, dust suppression pumping, tank filling, sewer bypass, frost control and fire pumps.

Works With A Wide Range Of Diesel Engines.

Automatic engine speed control is offered on all engines, whether electronic or mechanical. This feature can adjust the engine speed to a set speed point or vary the engine speed with respect to an external 4-20mA sensor. All automatic throttling options come with adjustable engine warm up, cool down and line fill timers. This controller is suitable for use on the following engine brands: Caterpillar, Cummins, MTU, Detroit, Perkins, Deutz, Hatz, Scania, Kubota, Yanmar, JCB, Lister and various engines from Asia. Note, For engine speed control on mechanical engines, an electronic throttle actuator must be purchased separately.

Telemetry connection Via (Satellite/GSM/GPS)

The controller's telemetry capabilities make certain you will always be connected to your asset via a smart phone, tablet or computer. You have the option of sending data to a 3G network or the option of a go-anywhere satellite network. Just choose the right modem/data package to suit your budget. PLC, RTU or SCADA users can also connect to the K27. The control panel has inbuilt data logging capabilities and captures all shutdown messages.

Multiple Engine Start/Stop Methods

The controller is normally supplied in kit form. This kit includes the controller in an enclosure, an engine wiring loom, a throttle actuator, secondary Featuring both manual and automatic start modes, the K27 offers great flexibility of use at the touch of a button. In automatic mode, the K27 is able to start and stop your engine based on a number of triggers such as: single float switches, low pressure switch, telemetry/PLC module, pressure transducer and mains failure contactor. The option is yours.