

The Access 4000 autostart generating set control panel offers a large number of monitoring and protection features within an extremely compact and user friendly package.

A variety of remote communication options are available allowing the user to access the panel from virtually any location. The design provides for high accuracy for all metering and protection functions, together with the obvious benefits of a large LCD text screen. The use of either an open communication protocol or Modbus ensures compatibility with most building management or supervisory control systems.

The result is a fully automatic configurable generating set controller specifically designed to meet the demands of today's diverse generating set marketplace.

- ▶ Digital based circuitry
- ▶ Digital power metering
- ▶ Digital engine parameter metering
- ▶ Open protocol or Modbus communication interface (RS-422 and RS-485)
- ▶ Option for Windows compatible remote monitoring packages
- ▶ Programmable spare output which, when remotely activated, can be utilised for a variety of functions
- ▶ Optional 20 channel annunciator
- ▶ Sheet steel cabinet
- ▶ Four line alpha-numeric liquid crystal display (Characters 10 x 5 mm)
- ▶ Backlit display
- ▶ Membrane keypad with tactile feedback
- ▶ AC metering accuracy $\pm 1.5\%$ @ 25°C (plus CT accuracy)
- ▶ Engine parameter accuracy $\pm 1.0\%$ @ 25°C (plus sender accuracy)
- ▶ Fault log memory
- ▶ Start sequence diagnostic LEDs
- ▶ Password protected operator levels
- ▶ Custom configuration using the integral keypad or a laptop PC
- ▶ Configuration stored in non-volatile memory

Access 4000



Access 4000 for 27 - 2200 kVA models



Access 4000 for 10 - 35 kVA models

Digital Control Panel



Standard Features

▶ Metering

AC Voltage (phase to phase and phase to neutral)
AC current
Frequency (Hz)
kW, kVA_r, kVA, pf (cos Φ), KWhr
Tachometer (rpm)
Lube oil pressure
Coolant temperature
Battery voltage
Hours run
Start attempt counter

▶ Controls

Run/Off/Auto control switch
Crank duration
Pre-heat control pushbutton
Crank repeats
Lock down stop button
Remote stop delay (inc. cooldown)
Remote start delay
Heater control - 3 circuits 220/240V AC
Crank delay
Static battery charger (5 amp) 220/240V AC

▶ Shutdowns

Fail to start shutdown
High coolant temperature shutdown
Low lube oil pressure shutdown
Stop button operated shutdown
Overspeed shutdown
Over-voltage shutdown
Under-voltage shutdown
Over-frequency shutdown
Under-frequency shutdown

▶ Alarms

Approaching high coolant temperature alarm
Approaching low oil pressure alarm
Battery charger failure alarm
Low battery voltage alarm
Not in auto mode alarm

▶ Additional Fault Channels

4 Spare shutdown channels can be programmed as shutdown or alarm

▶ Remote Signals / Contacts

Volts free contact - common alarm
Terminals for connection to remote stop button
Volts free contact - generator running

▶ Status Indicators

Visual Alarm (with priority flashing)
Panel mounted audible alarm

Optional Features

▶ Controls

Speed adjust potentiometer* - requires adjustable electronic governor option (or droop engine control module on models P160H - P275HE)
Voltage adjust potentiometer
Heater control - 3 circuits 120V instead of 220/240V AC
Static battery charger (5 amp) 120V AC instead of 220/240V AC
Static battery charger with boost control (220/240V AC)

▶ Shutdowns

Overcurrent shutdown from alarm switch on breaker
Low coolant level shutdown
Low fuel level shutdown
High lube oil temperature shutdown

▶ Alarms

Low Gas Pressure Alarm
Low coolant temperature alarm
Low fuel level alarm
High fuel level alarm

▶ Remote Communications

MCM2 - Remote monitoring and control (including PC software)
MCM3 - Remote monitoring and control via modem (including PC software)
MCM5 - 20 Channel remote annunciator
MCM6 - 20 Channel remote annunciator with 8 way relay board fitted

* Not available on 10 - 35 kVA range models

Not all options are available for every generating set. Check the availability from the Generating Set Options Price List.

