

The 4001 Series control panel allows the generating set to be automatically controlled by a remote signal and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch.



### Standard specification

#### ► Construction and finish

Components installed in a heavy duty sheet steel enclosure

Phosphate chemical pre-coating of steel provides corrosion resistant surface

Polyester composite powder topcoat forms high gloss and extremely durable finish

Lockable hinged panel door provides for easy component access

#### ► Mounting

Mounted to generating set baseframe on robust steel stand

Vibration isolated from generating set

Located at rear of generating set with excellent panel visibility

Installed as an integral part of the enclosure on enclosed generating sets

#### ► Instrumentation

AC instruments are 90° deflection, 72 mm square, flush mounting

AC instruments in accordance with IEC60051 and 60529, DIN43700 and 43718, BSEN60051 and 61010, UL94

Engine gauges are heavy duty, 52 mm diameter, electrically operated

#### ► Controls

Protected by fused DC supply from starting battery

Printed circuit board assemblies with field proven circuit elements

Thoroughly tested during manufacture and final test of generating set

Multi-pin plug and socket connections for ease in servicing

Switches and push buttons are heavy duty industrial type

Internal AC and DC panel wiring harnesses pre-formed for uniform routing and enhanced interconnect reliability

## 4001 Series



[www.3Tech.net](http://www.3Tech.net)

## Control panel



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ISO 9001:2008  
Certificate No. 194845



## Standard features

### ► Instrumentation

Voltmeter  
Ammeter  
Combined frequency & tachometer  
Hours run counter  
Coolant temperature gauge  
Lube oil pressure gauge  
Battery condition voltmeter  
7 position voltmeter phase selector switch  
4 position ammeter phase selector switch

### ► Controls

Run/off/auto switch  
Emergency stop button (red)  
Engine preheat push button  
Lamp test push button  
Cycle cranking (3 cycles with adjustable timing)  
Cool down timer

### ► Shutdowns with individual warning lamps

Fail to start  
High coolant temperature  
Low lube oil pressure  
Over speed

### ► Alarms with individual warning lamps

Low battery voltage

### ► Remote signals/contacts from panel

Terminals for remote emergency stop  
Common fault alarm signal

### ► Additional fault channels

One channel available for optional shutdowns  
One channel available for optional alarms

## Optional features

### ► Instrumentation

3 ammeters instead of 1 ammeter & selector switch  
Kilowatt meter  
Static battery charger ammeter  
Lube oil temperature gauge

### ► Controls

Panel emergency stop push button with security key  
Speed adjust potentiometer  
Voltage adjust potentiometer  
Audible alarm supplied loose  
Panel mounted audible alarm  
Set of volt free contacts for common alarm  
Auto preheat control circuit  
Static battery charger 5A CVC 120 volt  
Static battery charger 5A CVC 220/240 volt  
Static battery charger with boost control 220/240 volt  
Volt free contacts for generating set running

### ► Shutdowns with individual warning lamps

Under speed  
Over voltage  
Under voltage  
Combined under/over voltage  
Earth fault  
Earth leakage  
Overload shutdown via over current relay  
Overload shutdown via alarm switch on breaker  
High engine exhaust temperature alarm  
High fuel level alarm

### ► Remote communications

PAN4 - 8 channel remote annunciator panel  
PAN5 - 16 channel remote annunciator panel  
PAN6 - remote annunciator upgrade  
PAN7 - lockdown stop button



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