

The LCP2 control panel is designed for automatic starting and stopping of the generating set with 2 wire remote contacts as well as manual starting and stopping. The panel provides instrumentation for volts, amps, and a combined frequency meter and tachometer along with a battery condition voltmeter. The control system provides shutdown protection with individual indicating lamps on the panel for high coolant temperature, low oil pressure, fail to start and overspeed. Optional instrumentation for alarms and shutdowns are available.

The LCP2 control panel has one additional protection control channel for options with an indicator lamp that can be programmed for either shutdown or alarm.

The result is a fully automatic generating set controller, suitable for controlling a standby generating set in conjunction with an automatic transfer switch.

### Standard specification

#### ► Panel 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 top-coat forms high gloss and extremely durable finish
- 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, 72mm square, flush mounting
- AC instruments in accordance with IEC60051 and 60529, DIN43700 and 43718, BSEN60051 and 61010, UL94
- Engine gauges are heavy duty, 52mm 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



## LCP2



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

## Control panel



**3Tech Corporate Limited**  
Unit 904, 9/F., Fu Hang Industrial Building,  
1 Hok Yuen Street East, Hung Hom,  
Kowloon, Hong Kong.  
Tel: +852-2766 9787 Fax: +852-2766 9774  
Email: sales@3tech.net

Headquarters: Hong Kong China: Beijing, Dongguan, Shenzhen, Xiamen  
Overseas: Nigeria, D.R.Congo, Ghana, Kenya, Tanzania, Pakistan, USA, Canada, France



ISO 9001:2008  
Certificate No. 194845



## Standard features

### ▶ Instrumentation

Voltmeter  
Ammeter  
Combined frequency and tachometer  
Hours run counter  
Battery condition voltmeter  
7 pos voltmeter phase selector switch  
4 pos ammeter phase selector switch

### ▶ Controls

Run/off/auto switch  
Emergency stop button (red)  
Engine preheat pushbutton (if required)  
Lamp test push button  
Common fault alarm signal (supplies positive battery voltage signal)  
Cycle cranking (3 cycles with adjustable timing)

### ▶ Shutdowns with individual warning lamps

Fail to start  
High coolant temperature  
Low lube oil pressure  
Overspeed

### ▶ Remote signals/contacts from panel

Terminals for remote emergency stop  
Start/stop control terminals (volt-free contact required)

### ▶ Additional fault channels

One channel is available for shutdown or alarm  
Note: This panel has one fault indicating lamp available on the face for options

## Optional features

### ▶ Instrumentation

Lube oil pressure gauge/coolant temperature gauge  
Set of volt free contacts for common alarm

### ▶ Controls

Panel emergency stop pushbutton with security key  
120 volt heater control for 3 circuits  
120 volt heater control for 3 circuits plus engine gauges and water level shutdown  
Static battery charger 5A CVC 240V with auxiliary controls charger  
Static battery charger 5A CVC 120V with auxiliary controls charger  
Earth leakage protection for main output 300mA, CB trip  
Socket rated for full output (32A, 50 Hz only) in place of terminals  
Socket rated for full output (32A, 60 Hz only) in place of terminals  
4 pole breaker in place of 3 pole breaker



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