

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 pushbuttons are heavy duty industrial type

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



LCP2



Control panel



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

