

# MC704 SERIES MICRO PANELS

## FOR MECHANICALLY GOVERNED ENGINES

### DESCRIPTION

The MC704 Series is a very powerful, incredibly compact micro panel used for diesel engine control, monitoring, and protection featuring LOFA's powerful First-Fault Diagnostics (FFD). After pinpointing the initial failure, FFD stores it in memory and alerts the end user via a single bright LED. FFD monitors battery charge, low oil pressure, high temperature, and one additional auxiliary contact closure input. The microprocessor-based solid state design uses high power semiconductors instead of outdated electro-mechanical relays to insure reliable and trouble free high current switching.

The MC704 Series Panels are offered in two versions. The MC704HP has a built-in tamperproof LED hourmeter while the reduced cost MC704LCP eliminates the hourmeter. Both panel versions can be factory programmed with your specific preheat & afterglow requirements. If preheat is not required, this output can function as an alarm.

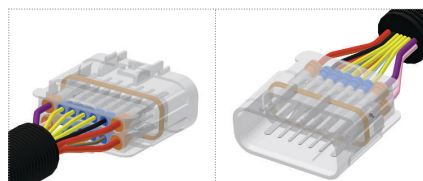
The standard panel includes a 12" wiring harness terminating into a sealed weather proof plug. This wiring solution offers a robust wiring connection that performs well in harsh environments. This wiring design allows for simplified installation as well as a flexible means to incorporate custom plug and play engine wiring harnesses and standard harness extensions.



Pictured Above: MC704 HP Micro Panel



Pictured Above: MC704 LCP Micro Panel



Pictured Above: Delphi GT Weather-proof Connector, Std. 12" Harness  
Other electrical connections available upon request.



## TECHNICAL SPECIFICATIONS

- Engine monitoring, protection and diagnostics via First-Fault Diagnostics (FFD) for battery charge, low oil pressure, high temperature and one additional auxiliary contact closure input
- Ultra bright LEDs display First-Fault Diagnostics (FFD) - highly visible in direct sunlight
- Automatic shutdown override eliminates pushing a button during engine starting, allowing for simplified engine cranking
- Programmable automatic preheat with afterglow controls the engine's cold starting aid when the key is turned to the run position
- Alarm output for external buzzer or beacon light provides additional indication if preheat is not required
- Keyswitch with built-in mechanical start locking
- Optional flip down weather cover available for wash down when key is removed
- Heavy-duty black anodized aluminum enclosure designed to withstand extreme industrial applications
- Simple plug and play installation customized to the specific application allows rapid equipment completion
- Standby current: 30 mA @ 12 VDC
- Operating temperature: -20° to 185° F (-30° to 85° C)
- 2-year limited warranty

### Solid State Inputs

- Temperature Switch
- Oil Pressure Switch
- Auxiliary Switch
- Solid State Outputs

### Solid State Outputs

- Fuel Shutdown Solenoid (50 A for 1 second/5% duty cycle, 20 A continuous)
- Starter Solenoid (50 A for 1 second/5% duty cycle, 12 A continuous)
- Alarm/Preheat (3.5 A continuous)
- Switched Battery (15 A continuous)

### Bidirectional

- Battery Charge Indication/Alternator Excitation (3 A continuous output, connects to alternator D+, L, etc.)

## DIMENSIONS

