

MC704 SERIES MICRO PANELS

FOR MECHANICALLY GOVERNED ENGINES

DESCRIPTION

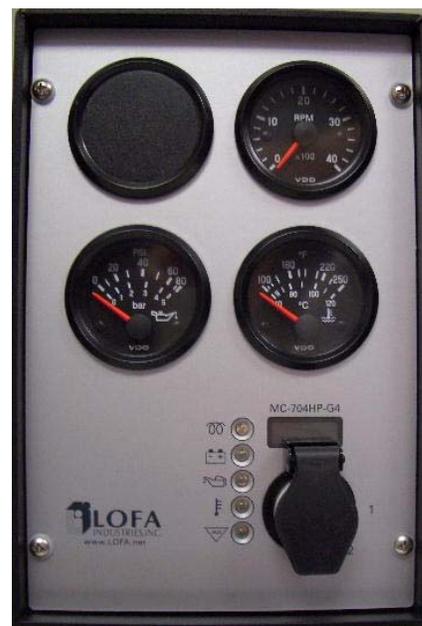
The MC704 Series is a very powerful, incredibly compact micro panel used for diesel engine control, monitoring, and protection featuring LOFA's powerful First-Fault Diagnostics (FFD). After pinpointing the initial failure, FFD stores it in memory and alerts the end user via a single bright LED. FFD monitors 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 The microprocessor-based solid state design uses high power semiconductors instead of outdated electro-mechanical relays to insure reliable and trouble free high current switching.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 for Yanmar TNV Series Engines. The **MC704HP** is the micro panel version without gauges and is housed in an enclosure that is 3" square. The gauge panel version, **MC704HP-G4** is housed in a 6" X 9" enclosure and has four available 2-1/6" gauge openings. The Yanmar factory panel includes a coolant temperature gauge, oil pressure gauge, a tachometer, and one additional gauge opening. Both Panel versions have a built-in tamperproof LED hourmeter and they come programmed with the direct injected (DI), or the indirect injected (IDI) preheat and afterglow requirements.

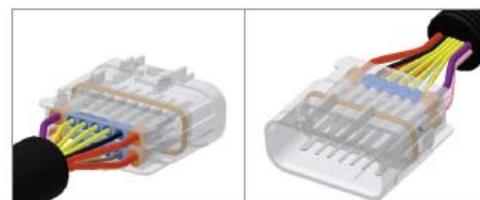
The panels include a 12" wiring harness terminating into a sealed weather proof plug. This wiring solution offers a robust wiring connection that performs well in harsh environments and it provides for a direct plug-in connection to the **LOFA Solid-State Power Box** harness assembly. This wiring design allows for simplified installation as well as offering a flexible means to incorporate custom plug and play wiring harnesses and standard harness extensions.



Pictured Above: MC704HP Micro Panel



Pictured Above: MC704HP-G4 Gauge Panel



Pictured Above: Delphi GT Weather-proof Connector, Std. 12" Harness



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
- VDO Cockpit International gauges – world class instruments set the Industry for quality and reliability (G4 version only)
- 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 Oil Pressure Switch

Solid State Inputs

- Oil Pressure Switch
- Temperature 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

