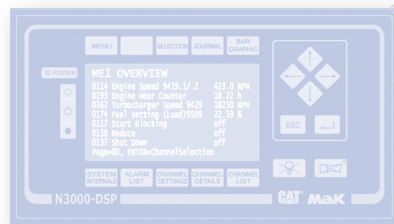
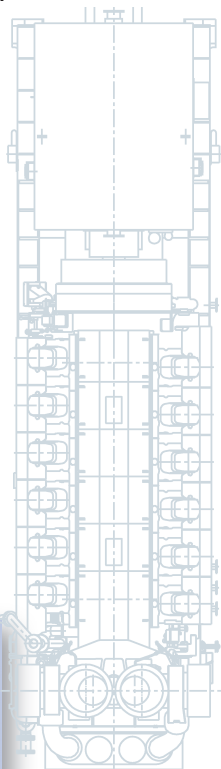


Features

- Modern design with programmable, variable inputs.
- Only digital signal processing.
- Data display for channel status with details and adjustments.
- Service friendly with pluggable connectors.
- Terminals with cage clamp.
- Type approved by GL, DNV, LR, ABS, BV



Germanischer Lloyd



LESS

Large Engine Safety System

Caterpillar Global Petroleum

Falckensteiner Str. 2
D-24159 Kiel, Germany

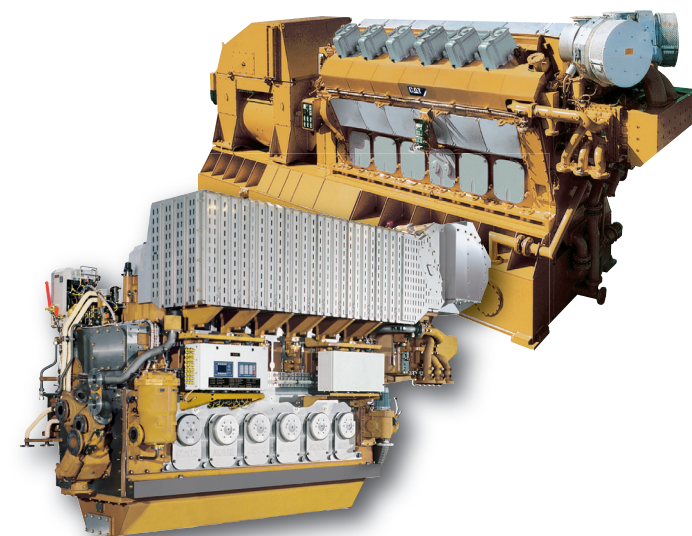
For more information please visit our website:
www.catoilandgas.cat.com
Technical information: ju_tech_info@cat.com

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LESS

Large Engine Safety System



LESS – Large Engine Safety System ...

... is a compact engine control, monitoring and protection system.
Included functions are control of the engine (start, stop),
monitoring of the actual status of sensors and the protection
system (emergency stops, interlocks, i.e.).

Engine control boxes include:

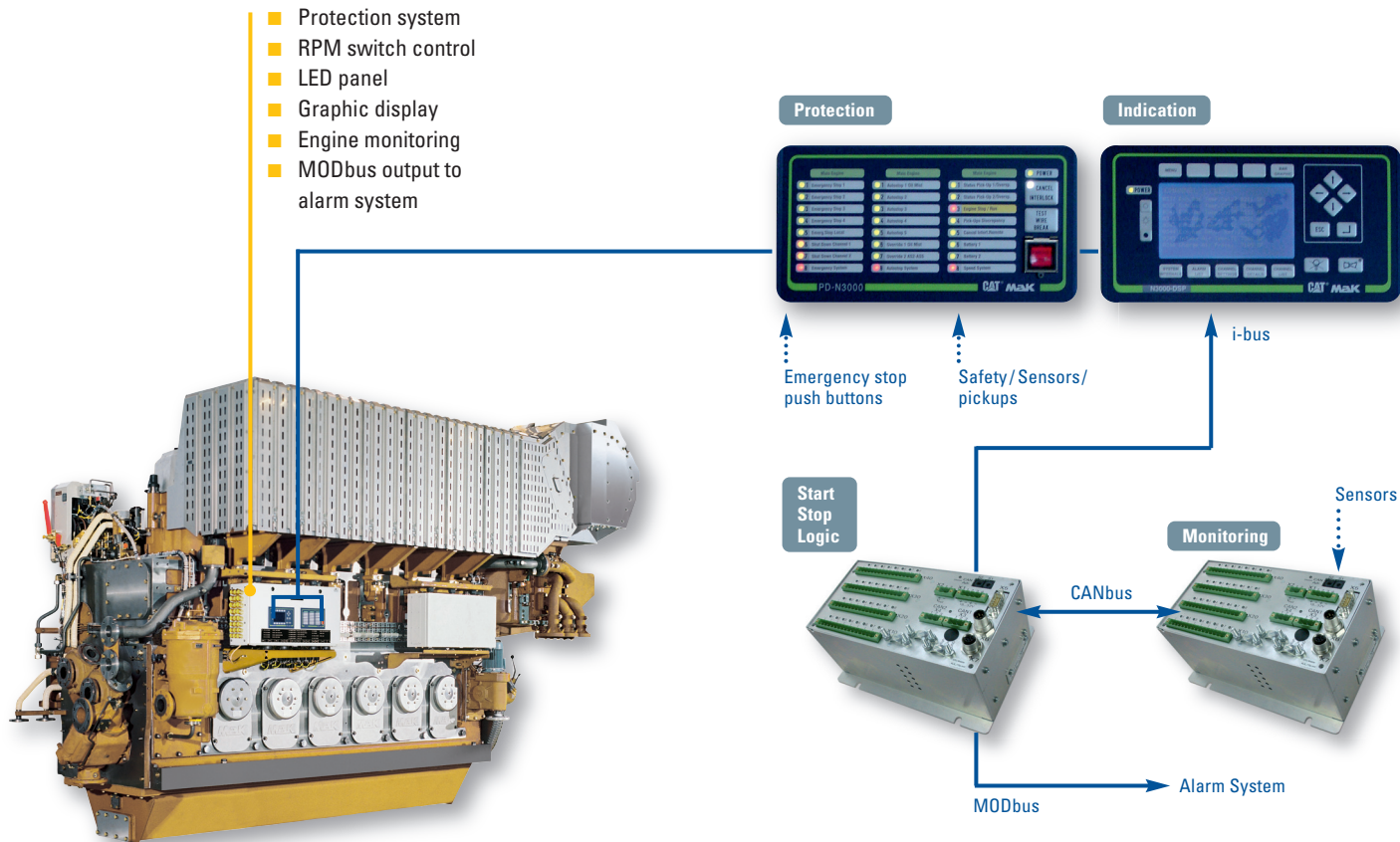
- Protection system
- RPM switch control
- LED panel
- Graphic display
- Engine monitoring
- MODbus output to alarm system
(MODbus RTU protocol RS 485/422)
- Data transfer via CANbus to DICARE PC (option)
- Exhaust gas mean value system (option)

System designed for:

- Automatic shut down
- Manual stop inputs
- Configurable inputs
(shutdown, reduction, start interlock)
- Override
- Remote reset
- All inputs are wire break and short circuit monitored
- Free adjustable speed contact
- Fuel setting signals
- Overload contact
- RPM signal

Advantages:

- Complete equipped/tested engine
- Less installation space, no separate components,
installation friendly engine
- Less wiring
- Less commissioning time
- Data transfer via MODbus RTU protocol to alarm system



Standard version: Engine mounted on inline engines.
Loose supply or installed in separate cabinet for V-engines and M20 C.

LESS

Large Engine Safety System

