

Combustion Control Module CCM

High speed cylinder pressure data acquisition for Diesel- and Gas engines

- Cylinder balancing
- Knock detection
- Misfire detection
- Thermodynamic parameters
- Easy integration to controller

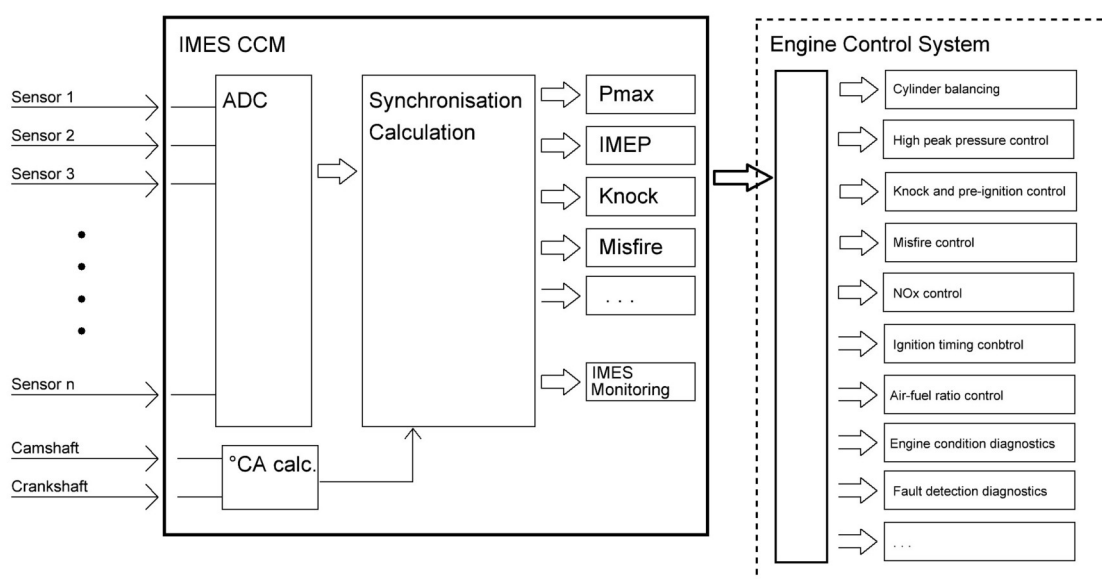


Application:

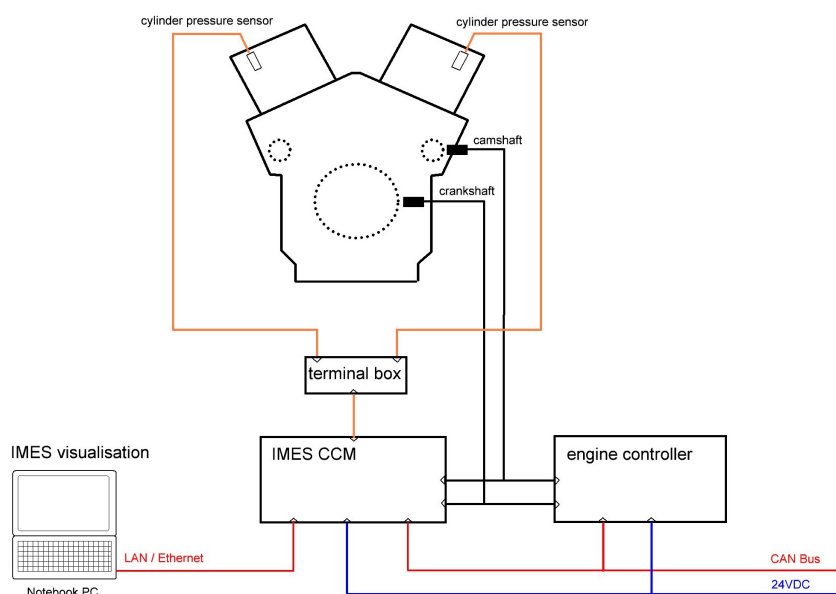
- 2 stroke engines: 40...1000 RPM
- 4 stroke engines: 100 ... 1800 RPM

General specifications

Marine qualification	
Bureau Veritas	70354/A0 BV
Class NK	TA23192M



Functions of CCM and Engine Control system



System overview for advanced pressure control on gas engines

Technical-data CCM

Analogue input and resolution
12 analogue inputs for pressure 4 ... 20mA, max. sampling resolution 0,1°CA
A/D conversion resolution 12bit
Communication
CAN Interface up to 1 Mbit/s
Fast Ethernet LAN Interface 100MBit/s
6 binary inputs 24VDC
2 isolated binary inputs 24VDC
8 Relay output, 4 changes over contact, 0.5A
1 analogue output 4...20 mA
Environmental conditions
Temperature max 70°C
Humidity 95% condensation
Vibration with shock damping elements
2 – 25Hz: magnitude + - 1,6 mm
25 – 100 Hz: acceleration + - 4 g
20 – 2000 Hz: 1,3 g
Shock
15 g, 11 ms halvesinusshock
Power supply
+24 VDC (18...32VDC)
Housing
Dimension: 335 x 211 x 94 mm , Weight: 3 kg
Protection class IP44