CCM Gas Engine control

multi cylinder combustion control for marine and stationary Gas Engines

Characteristics

• Cylinder balancing

• Knock detection

• Misfire detection

• Thermodynamic parameters

• Easy integration to controler

Combustion Control Module (CCM)

Application:

- 4 stroke marine and stationary Gas

Technical data

Combustion Control Module (CCM)	
Multichannel data acquisition unit	12 analogue inputs for pressure 4 ... 20mA, max. sampling resolution 0,1°CA
	ADC resolution: 12 bit
	CAN J1939 SAE standard interface
	Fast Ethernet LAN Interface 100MBits/s
Cylinder pressure sensor HTT-04CA®	
Marine classification	Bureau Veritas
	DNV-GL
	American Bureau of shipping
	Lloyd´s Register
	NK Class
	China Classification Society
ATEX type arroval	Group II, Category 3G
CSA type approval	2572163
Cylinder pressure sensor CPS-01CA®	
Marine classification	DNV-GL China Classification Society Class NK

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By continuous analysing combustion parameters of every cylinder, combustion contol module (CCM) enables instant detection of combustion knock, misfire, Peak pressure and IMEP.

Operation parameters can be adjusted immediately to achieve the best possible power and performance irrespective of the gas quality.
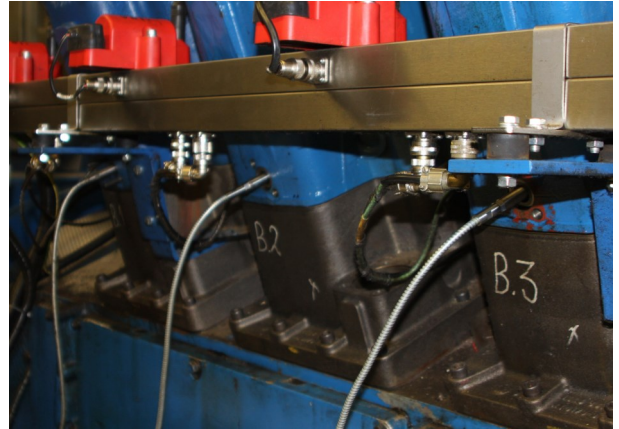
CPS-01CA® sensor installed on a gas engine
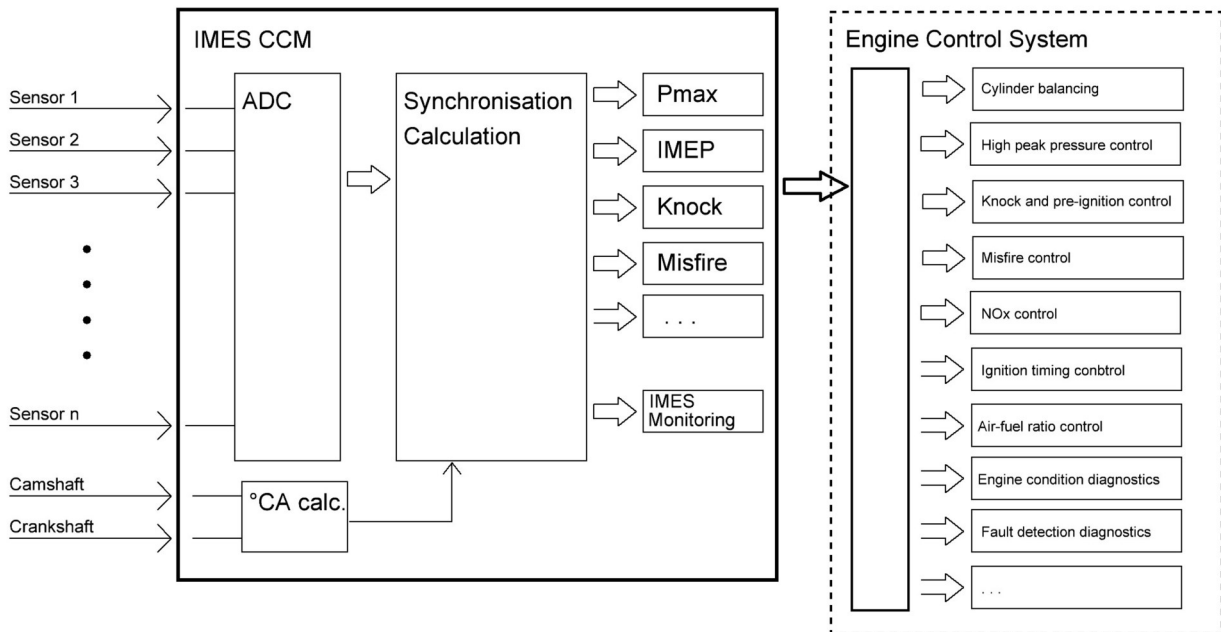
Functions of CCM and Engine Control system

Scope of supply

	Order no.
CCM incl. firmware	IW –8100

- CCM mounted in Alu –housing for 1...12 cylinder incl. connectors:
    1 x CAN Bus, 1 x LAN/Ethernet, 1 x 24 VDC, 2 x pulse
- Firmware

Sensors , cable and terminal box

- Terminalbox 1...12 cyiinder incl. 10m cable and connector to CCM	W-8003
- HTT-04CA$^®$ sensor range 0...300 bar	IW-6242
- CPS-01CA$^®$ sensor range 0...300 bar	IW-5932
- FPS-01CA sensor range 0...300 bar	IW-6104
- Sensor connecting cable 5 m	IW-4132
- Sensor connecting cable 10m	IW-4133