PMI
Adaptive Cylinder Control (ACCo)

With PMI Adaptive Cylinder Control, Everllence takes engine tuning to the next level. Using a powerful patented algorithm, a closed loop control ensures that each individual cylinder always operates at its optimal cylinder pressure. This secure peak performance and lowest possible fuel consumption at all times.

The successor to PMI Auto-tuning, PMI Adaptive Cylinder Control is a fully automatic system that will constantly help you secure optimal engine tuning regardless of engine load, load range, load changes, and varying fuel calorific values.

The core of the system is the patented closed loop control algorithm, which monitors and controls the pressure rise, compression pressure and the mean indicated pressure for each cylinder. Using values from the engine's performance trial as reference, the algorithm adjusts the fuel index and exhaust valve operation of each cylinder for optimal performance.

With PMI Adaptive Cylinder Control, it is no longer necessary to enter the fuel's calorific value. The system continuously monitors each cylinder's pressure and automatically adjusts for any fluctuations or changes in the fuel.

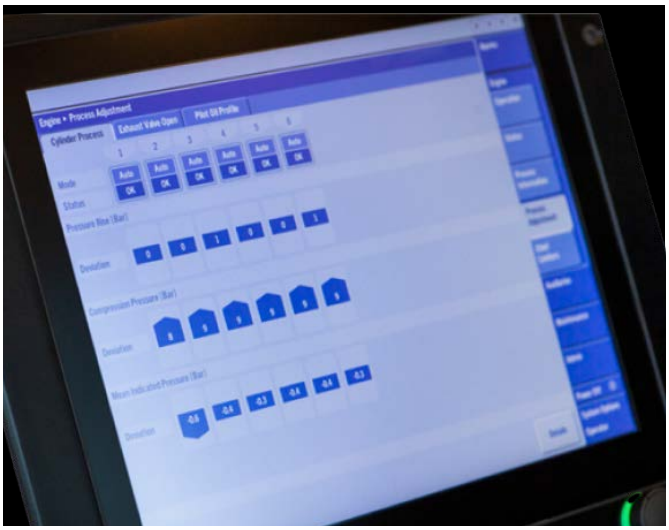
As a result, the PMI ACCo algorithm secure approx. 1.5 g/kWh in fuel savings. Additionally, service experiences show that Pmax deviations contribute about 0.25 g/kWh in savings per bar, creating potential for extra efficiency gains when deviations are minimized.

The reliability of the system has also improved: In the event that an individual PMI sensor should fail, the control for that specific cylinderwill switch to manual mode, while the remaining cylinders continue automatic operation unaffected.

Especially slow steaming vessels will see a major improvement with the new functionalities, as the system will automatically activate from 10% engine load.

Fully automatic and working in all load ranges, PMI Adaptive Cylinder Control makes engine tuning easier than ever and ensures that you do not miss out on the benefits.

Please contact your Everllence PrimeServ office for more details.



Everllence PrimeServ

PMI Adaptive Cylinder Control (ACCo)

Lowest possible fuel consumption and improved engine performance at all times

Key benefits

- Approx. 1.5 g/kWh in fuel savings
- Additionally, Pmax deviations contribute about 0.25 g/kWh in savings per bar
- Fully automatic system
- Lowest possible fuel consumption at all times
- Improved reliability and tuning of the engine
- Slow-steaming support
- Automatic adjustment for fuel variations
- Great return on investment

Scope of supply

- PMI Adaptive Cylinder Control software
- PMI ACCo requires minimum hardware specifications, which we will verify during pre-inspection

Applicable to

- All ME-C engines
- All following ME-B engines: 8.3, 8.5, 9.3, and 9.5

More information

Contact your local Everllence PrimeServ office for more information about the product and how the upgrade can improve your specific engine.

Everllence PrimeServ

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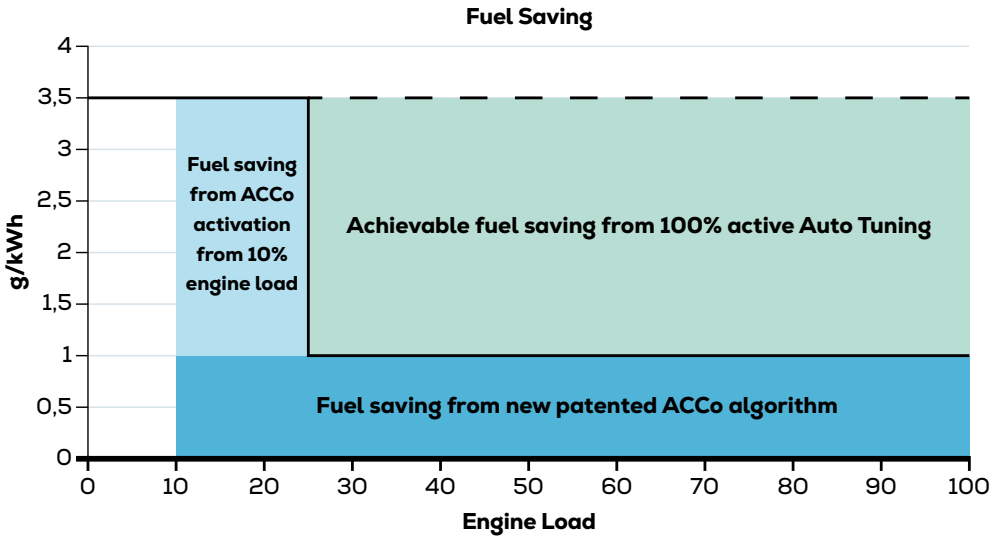

Figure 1: Fuel saving