



# 275GL+ to 275GL+ with ESM2 Conversion Upgrade Offering

## Product description

Simplify your engine, increase your reliability, and improve your 275GL+ operability. Grow with the Waukesha\* 275GL+ to 275GL+ with ESM2 Upgrade kit. This kit greatly advances the control capability of the engine and incorporates various reliability improvements made over the life of the engine to transform your user experience.

## Product details

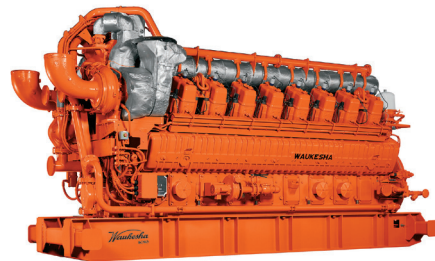
Upgrade Contents:

- 12"/305mm remote mounted HMI with harness
- IPMD2 ignition module
- Front wire harness
- High temperature harnessing for actuators & sensors near exhaust
- Customer Interface Harness – Single harness to interface to 275GL+
- Boost pressure sensors
- Trican Sensor – Measures ambient humidity, temperature, pressure
- Engine control actuators
- Power distribution box
- Smart Thermocouple Modules (STU) for managing exhaust & main bearing temperatures

## Customer benefits

- **Reliability**
  - Improved disturbance tolerance – No more wastegate learning
- **Consolidation**
  - Single, high capacity ESM2 control module for engine management

- **Usability**
  - Improved starting, steady state, and transient performance. Data trending, troubleshooting where you need it through the engine HMI
- **Transient Capability**
  - 0-100% load – 45 sec
  - 30-100% load – 30 sec
  - +/- 10% load at any operating point
  - 100% load rejection in < 10 seconds
- **Starting/Shutdown**
  - Full adjustability, automatic lean out after starting
  - Ability to start with 30% torque applied
  - Improved e-Stop feature that eliminates residual fuel in engine during hard stops



## Applicable units

### 275GL+ to 275GL+ ESM2 Upgrade

Engine	LCR/HCR	Kit
12V275GL+	HCR	G-962-1261
12V275GL+	LCR	G-962-1268
BHP Calibrations: 3130, 3375, 3625, and 3750		
16V275GL+	HCR	G-962-1262
16V275GL+	LCR	G-962-1273
BHP Calibrations: 4100, 4500, 4825, and 5000		

## HCR Customer Profile

- Fuel derate begins:
  - \*60 WKI/16V - \*70 WKI/12V
- 9:1 Pistons (not needed with upgrade)
- BTU fuels (600-900)
- Efficient fuel consumption
- Emissions: 0.5 NOx (g/BHP-hr)

## LCR Customer Profile

- Fuel derate begins: \*50 WKI
- 8:1 Pistons (needed for upgrade)
- Wide BTU fuels (900-2300)
- Lower Emissions: 0.3 NOx (g/BHP-hr)

\*BHP Calibration will relate to a lower WKI derate.

INNIO\* is a leading solutions provider of gas engines, power equipment, a digital platform and related services for power generation and gas compression at or near the point of use. With our Jenbacher\* and Waukesha\* product brands, INNIO pushes beyond the possible and looks boldly toward tomorrow. Our diverse portfolio of reliable, economical and sustainable industrial gas engines generates 200 kW to 10 MW of power for numerous industries globally. We can provide life cycle support to the more than 48,000 delivered gas engines worldwide. And, backed by our service network in more than 100 countries, INNIO connects with you locally for rapid response to your service needs. Headquartered in Jenbach, Austria, the business also has primary operations in Welland, Ontario, Canada, and Waukesha, Wisconsin, US.

Find your local support online: [www.innio.com/en/company/providers](http://www.innio.com/en/company/providers)

IWK-219037-EN

\*Indicates a trademark  
© Copyright 2021 INNIO Waukesha Gas Engines Inc. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.

