

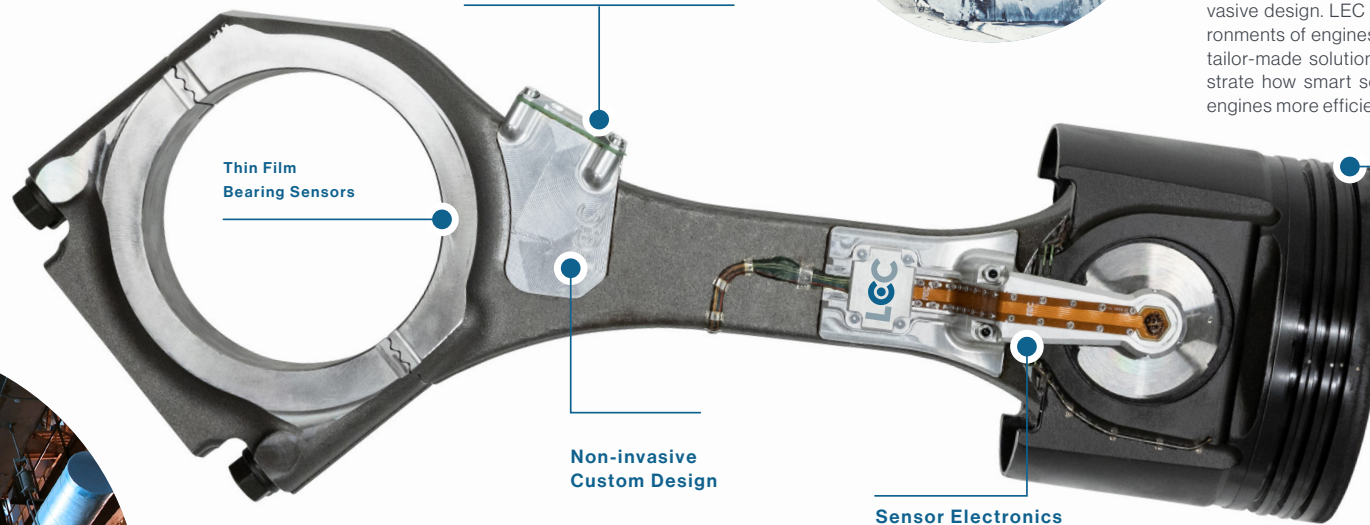


SENSOR TELEMETRY FOR HARSH ENVIRONMENTS



Smart Telemetry - the innovative sensor technology of the LEC makes it possible to record measurement variables that are difficult to access and to transmit the measurement data wirelessly.

Our telemetry system is developed specifically for each customer and the appropriate sensor technology is used in a non-invasive design. LEC Smart Telemetry can be used in harsh environments of engines, industrial or environmental processes. Our tailor-made solutions have one thing in common: they demonstrate how smart solutions make processes in and away from engines more efficient and sustainable.



Thin Film
Bearing Sensors

Telemetry unit housing

- CPU, BLE (Bluetooth Low Energy) transceiver
- Battery / energy harvesting / inductive charging

Non-invasive
Custom Design

Sensor Electronics

Wireless Data transfer:

- 📶 Temperature
- 📶 Pressure
- 📶 Bending and torsional moments
- 📶 Acceleration
- 📶 Component Deformation
- 📶 Piston ring dynamics (axial, radial)

Capabilities

- ☁️ Dust
- 💧 Water
- 🔥 Hot oil
- ⚡ High G-forces
- ⚡ powered by battery, energy harvesting or inductive charging

Applications

- Energy & transportation systems:**
- Shipping
 - Rail
 - Off-road
 - Power generation

