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SITRANS LR500 series

Siemens EcoTech Profile

Radar level measurement for liquids, slurries, and solids

Low carbon materials
Using a new design, we achieved a reduction in CO_2 footprint compared to the predecessor products.

Substances of concern
LR500 series uses less potting volume as well as less hazardous materials for potting of the electronics compared to the predecessor products.

Packaging
LR500 packaging uses less packaging materials than the predecessor products and packing materials are made using 100% recycled fibers.

Maintenance possible / Updatability
LR500 includes extensive maintenance features compared with the predecessor and is upgradeable.

Minimum material use
LR500 devices are smaller than the predecessor products while achieving even higher performance.

Durability / Longevity
LR500 series has an improved MTBF value compared with the predecessor products.

Repairability
LR500 series is easy to repair if necessary and spare parts are publicly available.

Compliant with substance regulations
Protect people and environment by avoiding substances of concern.

EPD Type II or Type III available
The Environmental Product Declaration (EPD) provides transparency on the environmental impact of the product throughout its life cycle. Type II according to ISO 14021 including Life Cycle Impact Assessment (LCIA). Type III verified and certified according to ISO 14025.

Scan for Environmental Product Declarations (EPD) and further technical information.

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Range of application
This Siemens EcoTech Profile is valid for SITRANS LR500 radar level measurment series.

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Further information on the product

Sustainable materials:

Low carbon materials

- The new product reduces CO_2 emissions by more than **50%** by using less stainless-steel and potting volume.

Substances of concern

- LR500 uses a silicone based potting material with **89%** less volume and less harmful health hazard ratings.

Minimum material use

- LR500 is **57%** smaller than LR250 and **17%** smaller than LR560, by reducing stainless-steel and potting materials.

Packaging

- Packaging types have been reduced by **68%**, and smaller products further minimize packaging.

Optimal use:

Durability / Longevity

- The MTBF for the LR500 has been improved by over **60%** compared with the LR250 and by over **120%** compared with the LR560.

Maintenance possible / Updatability

- The LR500 has extensive memory for trend logging, diagnostic and parameter change logs. These can be used for predictive and preventative maintenance planning as well as device service.
- Future upgrades are possible via the digital channel.

Value recovery:

Repairability

- Main items are easily repairable by users (e.g., electronic and display modules, lid with window) and professional repair services are available to address more complex issues.
- Spare parts supply are available to ensure fast and reliable support as noted in the digital instruction manual.

Our production facilities

Our goal is clear: All Siemens production facilities and buildings worldwide are to achieve a net zero-carbon footprint by 2030. Today, all Siemens EcoTech products are manufactured in production facilities using 100% renewable electricity.

And the ambitions go much further. The management systems implemented in our production facilities reduce the environmental impacts of our sites. Furthermore, we ensure fair treatment and respect for our people. More information about the 360° view on Siemens' sustainable transformation: Learn more about our DEGREE framework

Scan for more information on the Siemens EcoTech framework

TÜV Rheinland has independently validated the assessing methodology behind this product sheet's data evaluation according to ISO 14020 and 14021 standards.

Our Robust Eco Design process

The Siemens Robust Eco Design (RED) approach provides the foundation for integrating Ecodesign systematically into our product development and allows us to derive Ecodesign specifications that are advantageous from an environment point of view while meeting our own sustainability goals as well as those of our customers and suppliers. The RED approach involves three phases:

Application perspective
Definition of relevant product families, identification, and prioritization of Ecodesign requirements from stakeholder expectations.

Solid foundation
LCA-based assessment of environmental impacts for representative products along the entire life cycle, communicated via EPD.

Dematerialization
Evaluation of quantitative environmental impacts of Ecodesign and of further requirements, derivation of improved design specifications wherever reasonable.

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