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SITRANS FM320

Siemens EcoTech Profile

Build on the past to craft the future

Minimum material use
Product is lighter, has fewer parts and offers additional functionality in a more compact format than its predecessor.

Packaging
Compared to its predecessor, the transmitter packaging is reduced in complexity and consists of recyclable cardboard.

Durability / Longevity
Excellent protection against water ingress and impact, well exceeding stringent standards.

Repairability
Large spare parts catalog allowing repair in situ without any special tools, ensuring rapid return to operations.

Energy efficiency
Reduced energy consumption during the operational phase compared to its predecessor.

Maintenance possible / Updatability
Extend operational life of the SITRANS FM320 via updates and optional modules.

Upgradability
The modular design allows for future updates of the hardware. SITRANS FMT020 is backwards compatible with existing installations.

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 FM320 and its transmitter SITRANS FMT020.

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Further information on the product

Sustainable materials:

Minimum material use

- Bundling functionalities of 2 predecessor products leads to significant material savings.
- The SITRANS FM320 can also measure conductivity of the media, eliminating the need for another instrument.
- Additionally, the product is **26%** shorter and its weight is **4%** lighter, with fewer plastic parts.

Packaging

- The packaging of the transmitter is fully recyclable, is composed of a minimum of **66%** recycled fibers, and it no longer uses foam.
- A QR code provides access to the online version of the operating instructions, and all relevant material.

Optimal use:

Energy efficiency

- Over the lifespan of the product the energy consumption is reduced by up to **15%** during the operational phase.

Durability / Longevity

- The enclosure can operate in a **30%** wider ambient temperature range and demonstrates a **7 times** higher impact resistance compared to its predecessor, while meeting **NEMA 4X** and **IP 68** standards.
- The enclosure will reliably protect the electronics for longer life.

Maintenance possible / Updatability

- Device firmware updates provided in SIOS to keep the device up to date for the lifetime of the product.

Value recovery:

Repairability

- Reliable repair services and supply of spare parts available for repairs on site by the customer.

Upgradability

- Ability to upgrade only the transmitter, leaving the sensor in situ. This minimizes costs and eliminates the recycling and shipping of sensors.
- Firmware updates for functional upgrades, as well as add-on hardware modules are available.

SITRANS FMT020 is the transmitter, SITRANS FMS300 the sensor, and together they become SITRANS FM320.

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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