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SITRANS FM520

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 predecessors.

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

Energy efficiency
Reduction of energy consumption during the utilization phase compared to its predecessor.

Maintenance possible / Updatability
Extend operational life of the SITRANS FM520 via updates and optional modules.

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

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

Repairability
Large spare part catalog allowing repairing in-situ without any special tools, ensuring rapid return to operations.

Ease of disassembly / Circularity instructions
Optimized design makes disassembly and recycling easy and more convenient.

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

EPD Type II available
According to ISO 14021 including Life Cycle Impact Assessment (LCIA).
The Environmental Product Declaration (EPD) provides transparency on the environmental impact of the product throughout its life cycle (e.g. Product Carbon Footprint (PCF) data).

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 FM520.

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Further information on the product

Sustainable materials:

Minimum material use

- Bundling of functionalities of 2 predecessor products leads to significant material savings in production.
- The SITRANS FM520 can also measure conductivity of the media, eliminating the need for another instrument.
- Additionally, the product height is 26% shorter and 4% lighter and consists of fewer parts.

Packaging

- The packaging of the transmitter is fully recyclable, and is composed of a minimum 66% recycled fibers, and 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 utilization phase.

Durability / Longevity

- The enclosure has an increased ambient temperature range of operations, meets NEMA 4X, IP 68 and has a high 7 Joules impact resistance, meaning the enclosure will reliably protect the electronics for longer life.

Maintenance possible / Updatability

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

Value recovery & circularity:

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 as well as add-on hardware modules are available.

Ease of disassembly / Circularity instructions

- The transmitter portion of the SITRANS FM520 can be disassembled using a simple screwdriver, and all parts click out of place.

SITRANS FMT020 is the transmitter, SITRANS FMS500 the sensor, and together they become SITRANS FM520.

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

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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Published by Siemens