

HONEYWELL GENT SECURES ENVIRONMENTAL PRODUCT DECLARATION FOR S-QUAD SELF-TEST

CHAMPIONING TRANSPARENCY
AND PRODUCT RESPONSIBILITY

GENT EPD BY HONEYWELL CASE STUDY

Honeywell
GENT

Honeywell is committed to delivering responsible, high-performance products to its customers. As part of this commitment, Honeywell pursued an Environmental Product Declaration (EPD) for its flagship Gent S-Quad Self-Test (S4T) detectors, developed through a rigorous Life Cycle Assessment (LCA).



BACKGROUND

The Gent S-Quad Self-Test series includes 11 advanced fire detector variants, featuring patented self-testing capabilities. These detectors are available in multi-sensor configurations, Part-23 Visual Alarm Devices (VADs), and sounder/voice options. Key design elements include an IP21-rated external moulding, a precision-engineered detector chamber, and a dual microprocessor Printed Circuit Board (PCB) that enhances smoke detection accuracy and voice storage capacity.

The EPD provides a comprehensive disclosure of the environmental impacts associated with each product variant across its entire life cycle. By pursuing this Type III environmental label, Honeywell empowers customers to make informed choices while driving more sustainable product development and operational practices.

APPROACH & EXECUTION

Honeywell sees the EPD as a valuable tool that provides a complete picture of environmental impacts throughout a product's entire life cycle. This includes every stage, from raw material extraction to end-of-life disposal. The EPD helps us quantify these impacts in a clear, evidence-based way, enabling better-informed choices for sustainability. Third-party verification ensures credibility and supports customers in meeting green building certification requirements.

For this initiative, Honeywell selected the Building Research Establishment (BRE) EPD scheme due to its alignment with EN 15804 – the European EPD standard for construction products, and other international standards. BRE's longstanding partnership with Honeywell and its reputation for rigorous testing standards made it a natural choice for verifying the Gent S-Quad Self-Test range.

The LCA was developed by Honeywell's in-house experts at the Dedicated Sustainability Centre of Excellence in Madurai. The process involved extensive cross-functional collaboration to gather primary data, detailed modelling using industry-standard software, and rounds of internal reviews before submission to BRE's

independent verification team. This effort not only resulted in a robust EPD but also further strengthened Honeywell's internal capabilities in life cycle analysis.

The verified EPD is now publicly available on BRE's GreenBookLive and Eco Platform in both PDF and machine-readable formats, enabling integration into building and infrastructure LCAs.

Hetty Leung, Sustainability Regulatory Lead at Honeywell, notes:

"Our collaboration with BRE ensured our LCA development aligns with the emerging landscape of standards and product category rules. LCA insights can be integrated into future product design and assessments, driving more sustainable product development."

BENEFITS

EPDs are becoming increasingly influential across the construction and building sectors, offering tangible advantages for manufacturers, specifiers, and project developers alike:

- Boost Green Building Credits:** EPDs are recognised by leading certification systems such as Leadership in Energy Environmental Design (LEED) and Building Research Establishment Environmental Assessment Method (BREEAM). Incorporating EPD-backed products is a cost-effective way to earn additional credits and help meet criteria in environmentally conscious projects.
- Differentiate in a Competitive Market:** EPDs remain relatively uncommon in building control products, positioning Honeywell's Gent S-Quad Self-Test range as a standout offering.
- Expand Market Access:** EPDs can enhance Honeywell's potential eligibility for a broader range of projects and tenders, due to the increasing importance placed on such certifications in public and private procurement processes across the EU and EEA.
- Enable Informed Decisions and Building LCAs:** EPDs provide standardised, transparent data that enable decision-makers to be fully informed and support LCAs at the building or infrastructure level.

- Support Scope 3 Emissions Reporting:** With growing emphasis on full value chain accountability, EPDs help stakeholders quantify and report Scope 3 emissions associated with purchased goods and services.

By investing in the development of EPDs, Honeywell enhances the credibility and transparency of its product portfolio. This commitment not only positions us as a leader in sustainability but also contributes to a more sustainable and forward-looking built environment.

ABOUT

Honeywell is a Fortune 100 technology company that is transforming the way every building operates to help improve quality of life. With Honeywell solutions and services used in more than 10 million buildings worldwide, commercial building owners and operators use our hardware, software, and analytics to help create safe, efficient, and productive facilities.

Honeywell Gent, formerly Gents of Leicester, is a Honeywell company. With over 150 years of experience, it is a leading manufacturer of innovative and flexible fire detection products.

https://www.greenbooklive.com/filelibrary/EN_15804/EPD/BREGENEPD000700.pdf

For More Information

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