



CARBON EMISSIONS REDUCTION AND MAN-HOUR SAVINGS BY GENT SELF-TEST TECHNOLOGY

A UK case study shows that Honeywell Gent's Self-Test technology can reduce the man-hours by 86% required for on-site commissioning and testing of 426 optical and heat detectors. In that case, the increased efficiency reduced the number of site visits needed, resulting in fewer miles driven by the contractor in its diesel vans. Over that system's 14-year lifespan, this can prevent the release of 3,490 kg of CO₂ equivalent emissions from diesel fuel combustion, representing a 69% reduction compared to manual functional testing methods.



86%

**REDUCTION IN
MAN-HOURS**



**AVOID
3490**

**KG OF CO₂-eq
OVER PRODUCT LIFE**



69%

**REDUCTION
IN CO₂-eq V.S.
MANUAL TESTING**

Disclaimer: Results based upon a case study where a customer-appointed fire contractor completed both visual and functional test for a system with 426 heat and smoke detectors in 4 loops using Honeywell Gent's S-Quad self-test technology at customer site address Mulberry Schools Trust, Richard Street, Commercial Road, London E1 2JP, with a driving distance of 273 miles per return trip for all parties. The test was carried out on 10th July 2024 and witnessed by Honeywell staff. Key assumptions applied to the calculation include the use of Light Goods Vehicles (i.e., vans) - Diesel - ≤ 3.5 tonnes, and the average number of detectors tested in a day without self-test technology, which is 79. The avoidance in carbon emissions and man-hours realized may not be typical of all implementations of self-test technology and are subject to change. These implementations, and the benefits associated with them, vary based on the goals and requirements of the organization, the size, location, environmental conditions, occupancy and use of the facilities where the measures are deployed, particular energy and sustainability challenges, and in-house capabilities. Typically, though, the benefits realized include some combination of cost reduction, energy efficiency, security of supply and carbon reduction.

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