

17th November 2011

Statement: EN54-25 and BS5839-1 Requirement for batteries

Cooper Fire Systems design and manufacture fire products to the latest international standards. The products are approved through reputable third party test houses such as LPCB, and UL laboratories for use around the world. During the design process of the Cooper Wireless range of products, EN54-25 and BS5839-1 were considered.

EN54-25 is a mandatory product performance standard, whereas BS5839-1 is a code of practice that gives recommendations where no product standard exists.

EN54-25 (clauses 5.3.2, 5.3.3 and table C.2 of EN54 pt25) state that the low battery fault warning of the single battery is given when the capacity for 30 days of normal operation plus 30 min alarm condition remains in the battery.

BS5839-1 recommends that radio linked components should be supplied from 2 independent supplies but does not state that the second battery needs to be monitored (for capacity or voltage). Therefore, the addition of a second primary battery does not give any advantage over the use of a single monitored battery as stated in EN54-25.

In our opinion having 2 batteries performing the same function as a single battery, without the correct monitoring of the second battery, could be regarded as degradation in performance as the condition of the second battery is not known and therefore could be flat.



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