LEAD-ACID BATTERIES FOR CONTROL AND INDICATING EQUIPMENT
AS 4428.5-1998, CLAUSE 2.6

1. SCOPE

This specification details the requirements for type evaluation for conformity to AS 4428.5-1998, Clause 2.6, as applicable to sealed lead-acid batteries suitable for use in control and indicating equipment.

The battery ratings include 6 and 12 Vdc with capacities across the range of 1 to 100 Ah.

2. REFERENCED DOCUMENTS

Relevant parts of the following documents are referenced for the purposes of this technical specification.

AS 4428.5-1998	Fire detection , warning, control and intercom systems – Control and indicating equipment, Part 5: Power supply units
AS/NZS 4029.2:2000	Stationary batteries-Lead-acid, Part 2: Valve-regulated type (IEC 60896-2:1995, MOD)
AS ISO/IEC 17025-1999	General requirements for the competence of testing and calibration laboratories

3. EVALUATION FOR CONFORMITY

Evaluation to determine conformity with the requirements of AS 4428.5-1998, Clause 2.6 "Batteries" shall reference the test methods of AS/NZS 4029.2:2000 Clauses 5.1 and 5.4.

Note: AS/NZS 4029.2:2000 is a modified version of IEC60896-2:1995. IEC60896-2:1995 has since been superseded by IEC 60896-21:2004 (requirements) and IEC 60896-22:2004 (test methods). Consideration may be given to evaluation for conformity to IEC methods.

Testing of each model and size of battery is required except where batteries within a range/series can be shown to technically differ only in their capacities. In such cases an evaluation for conformity of a selection of battery models may be accepted as representative of the range/series.

Selection within a range/series of batteries, which only differ in their capacity, shall be determined in accordance with Table 3-1:

Number of different models within a battery range/series	Number of models for which physical testing required
10 or more	**3** (capacities selected from low, intermediate and high capacity levels of the range/series)
5 to 9	**2** (capacities selected from low and high capacity levels of the range/series)
4 or less	**1** (capacities selected from an intermediate capacity level of the range/series)

Table 3-1 Selection of batteries, from a range/series, to which physical testing is to be applied

The documentation in support of the conformity and equivalence of batteries within a range/series of capacity levels must be sufficient to establish that the construction, materials and technology are the same and that the batteries are produced to the same design and manufacturing methods and systems.

4. REPORTING

In accordance with the following requirements, the evaluation report shall include all relevant information for the purposes of verification of conformity.

a. A statement of conformity with reference to this specification and unambiguous designation of the following.
   - all models selected and evaluated by physical testing.
   - all models evaluated by technical appraisal.

b. All other information in accordance with the reporting requirements of Australian Standard AS ISO/IEC 17025-1999.