Singapore Accreditation Council

ACCREDITATION SCHEME FOR INSPECTION BODIES

TECHNICAL NOTE: CAMS 01

SPECIFIC REQUIREMENTS FOR THE ACCREDITATION OF INSPECTION BODIES FOR CENTRAL ALARM MONITORING STATIONS

Technical Note – CAMS 01: 8 Dec 2025
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1. INTRODUCTION

1.1 The purpose of this document is to determine the competency of the inspection body(ies) providing services to the Central Alarm Monitoring Stations (CAMS) operators on the conditions of intruder alarm system installations and CAMS for conformance with standards or other normative documents and/or general requirements.

1.2 Supplementary information for specific areas of inspection may be published as other Technical Notes.

2. SCOPE

2.1 The scope of central alarm monitoring stations inspection covers the inspection of alarm monitoring systems, protection, facilities, power supply and their accessories. It includes the protection facilities, emergency lighting, portable fire extinguishers and standby power supply.

2.2 The scope of intruder alarm system installations covers the inspection of intruder alarm system, protection, location, power supply and their accessories. It includes the cabling and standby power supply.

2.3 This technical note (CAMS-01) should be read in conjunction with documents listed in the Reference Section and government regulations where applicable.

3. FACILITIES AND EQUIPMENT

3.1 Facilities and equipment which affect results that are critical to the conclusions of the examination shall be appropriate for the particular inspection to be performed.

3.2 Inspectors shall ensure that all equipment[1], including equipment not under the charge of the inspection body, used during inspection work is calibrated and traceable to the SI unit. Calibration shall be performed by recognized accredited laboratories[2] or the National Measurement Institute who is a member of the BIPM[3] MRA where possible. The inspection body should where possible refer to the recommended calibration interval of equipment as specified in relevant SAC-SINGLAS Technical Notes[4].

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[1] *Equipment shall be verified for functionality after they are set up at the test or inspection site.*

[2] *Recognised accredited laboratories refer to those accredited by SAC-SINGLAS or its MRA partners.*

[3] *BIPM MRA refers to listing of signatories maintained by the International Bureau of Weights and Measures (BIPM) and publicly available on the BIPM website: http://www.bipm.fr.*

[4] *Relevant SAC-SINGLAS Technical Notes include MET 001*

4. VERIFICATION

4.1 Where verification of devices or components is required to support the evaluation, the inspection body shall ensure that the verification is carried out by an accredited laboratory.

4.2 When an organisation is providing verification of devices or components and inspection for the same project, the organisation has to ensure that there is sufficient independence between the two activities (e.g. results of inspection activities and testing activities should not be approved by the same person).

4.3 Functional verification forms part of the activities of an inspection body and is therefore within the scope of ISO/IEC 17020. Examples of functional verification are verification of standby power supply and emergency lighting for the CAMS, etc.

5. INSPECTION PERSONNEL

5.1 Approved signatory and inspector must have minimum qualification of diploma in relevant engineering discipline and must be familiar with the relevant standards or codes used in the inspection activities.

5.2 Inspection body shall maintain records of inspector's qualifications, training and experience. The records shall include how and when each inspector is authorized by the inspection body to perform specific inspection or testing. The records shall include area of inspection that the inspectors are competent to inspect.

5.3 All nominated approved signatories are to be assessed for competency in conducting inspection of CAMS by the assessment team prior to award of accreditation. Subsequent assessment may consist of random selection of inspectors.

5.4 Approved signatories are to endorse the inspection report for inspection or where they have direct supervision of the inspection work.

5.5 Only approved signatory is allowed to carry out inspection of CAMS.

6. INSPECTION METHODS AND PROCEDURES

6.1 The inspection body shall have detailed procedures and instructions in accordance with SS 558 and other appropriate regulations, codes of practice, standards, specifications, guidance documents and customer requirements.

6.2 Sampling of the site shall be in accordance with ISO 2859-1(Sampling procedures for inspection by Attributes) or any other agreed sampling plan (as required by the regulator) and risk factor.

7. FORMAT OF ACCREDITATION SCOPE

7.1 The scope of accreditation is granted only for specific items, materials or systems being inspected. An example of the accreditation scope is attached in Appendix 1.

8. REFERENCE

a) ISO/IEC 17020:2012 – Conformity Assessment-Requirements for the operation of various types of bodies performing inspection.
b) ILAC P15:06/2012 – Application of ISO/IEC 17020:2012 for the Accreditation of Inspection Bodies
c) SS 558: 2010 – Construction, installation, operation and maintenance of intruder alarm systems
d) SS 558: 2024 - Code of practice for the construction, installation, operation and maintenance of intruder alarm system
e) Relevant SAC-SINGLAS Documents and Technical Notes including SAC-SINGLAS 006, MET-001 and EL-001
f) ISO 2859-1 2Ed: 1999 (Sampling procedures for inspection by Attributes)

Appendix 1

Inspection body: Type A or B or C

Type of product	Area of inspection	Inspection method, codes or standards used
Central Alarm Monitoring Stations (CAMS)	Central Station	SS 558: 2010 Clause 12 SS 558: 2024 Clause 13
Intruder Alarm systems	CAMS's Client Premises	SS 558: 2010 Clause 12 SS 558: 2024 Clause 13

Approved signatories

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NOTE:

Type A inspection body
The inspection body providing "third party" services.

Type B inspection body
The inspection body which forms a separate and identifiable part of an organisation involved in the design, manufacture, supply, installation, use or maintenance of the item it inspects and has been established to supply inspection services to its parent organisation.

Type C inspection body
The inspection body which is involved in the design, manufacture, supply, installation, use or maintenance of the items it inspects or of similar competitive items and may supply inspection services to other parties not being its parent organisation.