

SINGAPORE STANDARD

CP 10 : 2005

(ICS 13.220.20; 13.320)

CODE OF PRACTICE FOR

Installation and servicing of electrical fire alarm systems

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Foreword

This Singapore Standard is a revision of CP 10 : 1993 and was prepared by the Technical Committee on Emergency Alarm and Communication Systems under the purview of the Electrical and Electronic Standards Committee. The Code provides recommendations for the installation and servicing of fire alarm systems in buildings.

In this revision, existing requirements were reviewed and revised to bring the Code in line with the latest fire alarm concept and technology. The principal changes made in this revision are as follows:

- a) The requirements for locations where fire protection is not required have been updated (1.4.2);
- b) A new requirement for permitted extension of zones extending beyond a single fire compartment has been added (1.4.3.2);
- c) New features and requirements for main/sub alarm panels and repeater panel have been included, in line with new technology (1.3.18, 2.2.1, 2.2.5, 2.2.6, 2.2.7, 2.5.8 and 3.1.2);
- d) The requirements for zone chart/mimic panel have been included, as advised by the regulatory authority (2.2.2);
- e) New requirements for the alarm verification feature (AVF) have been added (2.5.11);
- f) The requirements for spacing between detectors have been updated to be in line with AS 1670.1 : 1995. The previous edition of CP 10 was based on AS 1670 : 1986 (2.7 and 2.8);
- g) Guidelines on the design process and maintenance of the fire alarm system and the selection of detectors to limit false alarms are provided (2.1.5, 3.4.2 and A.2.2);
- h) The design requirement for beam-type smoke detectors is provided (2.8.3.2.2 and 2.8.3.8).

In the preparation of the standard, reference was made to the following standards:

AS 1670.1 : 1995	Automatic fire detection and alarm systems – System design, installation, and commissioning
BS 5839-1 : 2002	Fire detection and fire alarm systems for buildings – Part 1 : Code of practice for system design, installation, commissioning and maintenance
BS EN 54-2 : 1998	Fire detection and fire alarm systems – Part 2 : Control and indicating equipment

In particular, the following requirements have been based on the AS 1670.1 : 1995:

- a) The spacing, location and mounting of heat, smoke and flame detectors;
- b) Optical beam line-type smoke detector and aspirating smoke detection systems.