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Third Edition CAN/ULC-S527-11 CONTROL UNITS FOR FIRE ALARM SYSTEMS

ULC Standards is pleased to announce the publication of the Third Edition National Standard of Canada, CAN/ULC-S527-11, Control Units for Fire Alarm Systems. This Standard supersedes ULC/ORD-C100-92, Smoke Control System Equipment.

This Edition of the Standard was developed by the ULC Standards Working Group on Control Units and reviewed by the ULC Standards Subcommittee on Control Units for Fire Alarm Systems. It has been approved by the ULC Committee on Fire Alarm and Life Safety Equipment and Systems, and by the Standards Council of Canada as a National Standard of Canada. This is published under the date of April 2011.

This Standard covers requirements for control units, fire alarm systems and control unit accessories for use in accordance with CAN/ULC-S524, Standard for the Installation of Fire Alarm Systems, in accordance with Rule 32-004(1) of C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part I; and the National Building Code of Canada.

This Standard also covers smoke control features when incorporated as a part of the control equipment, releasing device service and stand alone power supplies. This edition of the standard was updated to address technological advancements. Some of the major revisions in this edition are as follows:

- The Glossary section was expanded and modified to coordinate with the terms used in this and in other standards;
- Throughout the standard, text and requirements have been changed to reflect changes in system technology, modification to other Codes and Standards and to reflect input and comments submitted to the committee;
- Except where unique Canadian requirements take precedence, the document has been harmonized to the extent possible with UL 864, Control Units and Accessories for Fire Alarm Systems;
- Three levels of Display Control Centres using computer work stations are now recognized in addition to unique requirements for a portable command centre;
- Specific operating requirements, timing and sequencing for digitized and manually initiated voice communication messages are now identified;
- Requirements are now included for the supervision and operation of smoke control systems integrated as a part of fire alarm systems;



- There are new requirements for LAN and WAN networks connected to fire alarm systems;
- Newly defined requirements for degraded and stand alone operation of transponders;
- Additional requirements were introduced for reliability of software and firmware as well specific requirements for system software compare utilities with reporting by exception;
- Specific performance criteria and tests now included for emergency two-way telephone equipment included on fire alarm systems;
- Revised requirements and testing for both short-range and long-range radio frequency communication;
- Priority for handing system inputs now broken into six categories (previously only three); alarm, emergency, supervisory, other signal associated with building operation, troubles associated with alarm, emergency and supervisory;
- Labelling designations for controls and displays on equipment are now defined in both English and French; and
- List of visual indicators and required LED colours expanded (red can only be used for elements associated with alarms).

CAN/ULC-S527-11 is available for purchase at \$ 220.00 for soft copy or \$ 264.00 for hard copy, from the ULC website (www.ulc.ca) ULC online store.

Should you require any additional information, please contact Tess Espejo at (416) 757-5250 ext. 61212 or at email address: Theresa.Espejo@ca.ul.com.

Yours truly,

ULC STANDARDS

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