

Overheat and Fire Detection in Animal Housing Facilities

Because Animal Housing Facilities typically consist of large floor areas occupied by only a few personnel, fires often go undetected for a long period of time after they start. Common fire hazards often associated with these structures are careless disposal of smoking materials, poor housekeeping practices, sparks from cutting or welding equipment, ignition from tractors or other mobile farm equipment, improper use of portable electrical heating equipment, and arson.

Protectowire Linear Heat Detector provides an effective solution for the risks associated with this unique application, and offers distinct advantages over other types of detectors. Protectowire is not adversely affected by temperature fluctuations which often occur between the heated and unheated areas of the building, or when the large entrance doors are opened and closed. In addition, other environmental factors associated with animal housing such as dust, dirt, and insects all adversely effect the operation of typical smoke detectors thereby severely limiting their use.

Protectowire Linear Heat Detection Systems may be used to activate a preaction sprinkler system in addition to providing fire detection capabilities. Protectowire FireSystem Control Panels ensure complete system integration and reduce costs by eliminating the need for separate sprinkler control panels. The Detector is available in a variety of temperatures and outer jackets designed to accommodate the widest range of installation environments.

Protectowire Linear Heat Detection Systems are designed to provide the most reliable and cost-effective fire protection available for the risks and environmental conditions associated with this unique application.



- Inexpensive when compared to conventional fire detection systems.
- Easy to design and install.
Single source manufacturer.
- Low maintenance.
Complies with current NFPA Codes.
- Complete and continuous coverage.
- Unaffected by damp, corrosive and/or outdoor environments.
- Potential Insurance savings.

The Protectowire System

Protectowire Linear Heat Detector

Protectowire is a heat detector in the form of a wire. This unique detector is connected to an approved SRP4x4 Fire Alarm Control Panel that continuously monitors the system for alarm and trouble conditions thereby providing a highly reliable fire detection system. Protectowire detectors are easily installed and tested and have been specifically designed to reduce installation and maintenance costs.



- Detects heat at any point along its length.
- Easily spliced using common tools.
- Easy troubleshooting because of simple design.
- Outer jackets resist corrosion, chemicals, dust, dirt, and moisture.
- Available operating temperatures: 155, 190, 220, 280, and 356 degrees F.

SRP4x4 Control Panel

The SRP4x4 is the “heart” of the Protectowire system. This self-contained control unit monitors alarm status and integrity of the system wiring, and provides control of critical functions such as alarm notification, extinguishment system activation, and emergency battery back-up power to insure complete 24/7 fire protection capabilities.



- Standard battery charger, lamp test, and ground fault detection included.
- Programmable input and output circuits.
- Monitors up to 5,000 feet (1,524m) of Protectowire per zone.
- Optional Protectowire Alarm Point Location Meter available to display the exact location of the alarm.

The Protectowire Company, Inc.

40 Grissom Road, Plymouth, MA 02360-7205 U.S.A.
781-826-3878; Fax 781-826-2045

Website: www.protectowire.com; E-mail: pwire@protectowire.com

**Manufacturer of
Special Hazard
Fire Detection Systems**