



Member of the FM Global Group

UPDATED: June 27, 2012
SUPERCEDES PRODUCT ALERT DATED FEBRUARY 28, 2012

Product Alert

Type of Notification: Performance Related Concern

FM Approvals has been made aware of a quality issue which can affect the performance of Gems 3100 Pressure Transducers used in fire pump controllers.

Company Identity: Gems

Name: Gems Sensors, Inc.

Address: 1 Cowles Road, Plainville, CT 06062

Contact information: Mr. Philip Draper, Phil.Draper@gemssensors.com

or call the company toll-free at (855) 877-9666, between 8 a.m. and 4:30 p.m. ET, Monday through Friday

Product Identity: 3100 Series Pressure Transducers

Description: Stainless Steel, 300 or 600 psi range, 4-20 mA or 0.5-4.5 V Ratiometric or 1-6 V or 1-5 V output

FM Approval Status: FM Specification Tested to applicable sections of FM Approval Standard 1321/1323 and NFPA-20

(Not itself FM Approved, but may be a component in an FM Approved fire pump controller)

This Product Alert is being re-issued to reflect a complete recall of the Gems 3100 Series pressure transducers. Since the original release of this Product Alert on February 28, 2012, the US Consumer Product Safety Commission (CPSC), in cooperation with Gems Sensors, Inc., have announced a voluntary recall of *all* Gems 3100 Series pressure transducers. The original Product Alert only addressed a subset of the Gems 3100 Series pressure transducers, which were identified through a range of serial numbers.

The CPSC recall information can be found at the following URL on the CPSC website:

<http://www.cpsc.gov/CPSCPUB/PREREL/prhtml12/12156.html>

Hazard Involved:

Gems Sensors, Inc. ("Gems") has identified a quality issue which can affect the performance of Gems 3100 Pressure Transducers in fire pump controllers manufactured between January 2006 and February 2012. Gems Sensors, Inc. has issued a voluntary recall notice with the Consumer Products Safety Commission.

The transducer can fail to accurately detect water pressure in a fire suppression sprinkler system. This could cause the sprinkler system to fail to activate and pump water to the sprinklers in the event of a fire.

The Gems 3100 Pressure Transducer is used in the detection of water pressure as part of a fire pump controller in a fire suppression sprinkler system. The transducer has "Gems Sensors & Controls," as well as the 18-digit part number, printed on a label affixed to the center of the transducer. Part numbers beginning with "3100" are included in this recall.

FM Approved fire pump controllers, from the following manufacturers, may be affected:

- ASCO Power Technologies LP
- Hubbell Industrial Controls Inc
- Joslyn Clark Controls LLC
- Master Control Systems Inc
- Metron Eledyne
- Metron Inc
- Tornatech Inc

Signs that the pressure transducer is affected by this recall would include one (or more) of the following conditions:

- The automated weekly test of the fire pump controller fails due to the lack of sensed drop in water pressure. (Indication of an incorrect high drift/reading)
- The system pressure displayed on the fire pump controller does not change when the water pressure is manually reduced and/or the fire pump controller does not call to start when the water pressure has been manually reduced below the set point. (Indication of an incorrect high drift/reading)
- The fire pump controller continuously calls to start even though the system is above pressure set point and/or the system pressure displayed on the fire pump controller is lower than the actual verified system pressure. (Indication of an incorrect low drift/reading)

The pressure transducer is typically located inside the fire pump controller cabinet on the bottom of the enclosure. The location can also be traced by following the water sensing line coming from the sprinkler system into the controller. The pressure transducer may be covered by a water spray shield inside the controller cabinet which may not allow easy access to the serial number information. The water spray shield can be removed but should be replaced once retrieval of the desired information has been completed.



Gems 3100 Pressure Transducer

If you suspect you are in possession of one of the affected Gems Series 3100 pressure transducers listed above bearing the marking “FM SPEC TESTED”, please contact Mr. Philip Draper at Gems Sensors, Inc. at **Phil.Draper@gemssensors.com** for guidance and replacement information. For additional information, call the company toll-free at (855) 877-9666, between 8 a.m. and 4:30 p.m. ET, Monday through Friday. Also, inform FM Approvals using the contact information below:

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