



## Product Alert

June 10, 2015

### Type of Notification: Product Safety Notification

FM Approvals has been notified by Dresser Inc., Masoneilan Operations of a potential safety concern involving FM Approved SVI FF Positioners when installed in Class I, Division 1, Groups A and B, Zone 0 Group IIC or Zone 1 Group IIC hazardous (Classified) locations.

See attached Technical Information Letter issued by GE Measurement & Control.

**Company (As Listed in the Approval Guide):** Dresser Inc., Masoneilan Operations (Division of GE Measurement & Control)

**Address:** 85 Bodwell St, Avon, Massachusetts 02322, USA

**Contact information:** General Telephone: (508) 586-4600

**Product Identity:** Smart Valve Foundation Fieldbus Positioner

**Models:** SVI FF Positioner

**FM Approval status:** All models bearing the FM Mark.

**Hazard involved:** As a result of an error within the manufacturer's specifications, the electronics contained within the positioner are not sufficiently protected as Intrinsically Safe in Class I, Division 1 Groups A & B, Zone 0 Group IIC or Zone 1 Group IIC areas. This product alert only affects products with a serial number in the range between FA020100001 and FA02459999. It is advised that if you do have one of these SVI FF Positioners that fall within the identified serial number range, it must be removed from service immediately and replaced with a certified intrinsically safe device.

Further information can be obtained from your local Dresser Inc., Masoneilan Operations representative or email at [svisupport@ge.com](mailto:svisupport@ge.com)

If you suspect you are in possession of any of the affected equipment listed above bearing the FM Approvals certification marking, please bring it to the attention of:

**Antonio Pires**

**FM Approvals, Quality Department**

**Norwood, MA, USA**

**+1 (1)781 255 4825**

**Email: [Antonio.pires@fmapprovals.com](mailto:Antonio.pires@fmapprovals.com)**



## TECHNICAL INFORMATION LETTER

### GE MASONEILAN SVI FF SMART VALVE FOUNDATION FIELDBUS POSITIONER

#### APPLICATION

The contents of this TIL apply only to Intrinsically Safe installations of Masoneilan SVI FF positioners in Class I, Division 1 Groups A & B, Zone 0 Group IIC or Zone 1 Group IIC areas. The serial numbers of relevant units will fall between the number range FA02010001 and FA02459999.

#### PURPOSE

This TIL is to inform customers of Masoneilan SVI FF positioners that the product as shipped does not satisfy the requirements of the previously mentioned Intrinsically Safe classification. In the event a Masoneilan SVI FF positioner is used in the previously mentioned Intrinsically Safe applications, the electronics contained within the positioner are not sufficiently protected, resulting in a potentially hazardous condition. This letter provides recommendations to review the installed application, review for potential hazards, and how to manage corrective actions.

#### Compliance Category

|                                |  |
|--------------------------------|--|
| <b>O - Optional</b>            | Identifies changes that may be beneficial to some, but not necessarily all, operators. Accomplishment is at customer's discretion.   |
| <b>M - Maintenance</b>         | Identifies maintenance guidelines or best practices for reliable equipment operation.  |
| <b>C - Compliance Required</b> | Identifies the need for action to correct a condition that, if left uncorrected, may result in reduced equipment reliability or efficiency. Compliance may be required within a specific operating time. |
| <b>A - Alert</b>               | Failure to comply with the TIL could result in equipment damage or facility damage. Compliance is mandated within a specific operating time.   |
| <b>S - Safety</b>              | Failure to comply with this TIL could result in personal injury. Compliance is mandated within a specific operating time.  |

#### Timing Code

|          |  |
|----------|--|
| <b>1</b> | Prior to Unit Startup / Prior to Continued Operation (forced outage condition) |
| <b>2</b> | At First Opportunity (next shutdown)   |
| <b>3</b> | Prior to Operation of Affected System  |
| <b>4</b> | At First Exposure of Component   |
| <b>5</b> | At Scheduled Component Part Repair or Replacement                              |
| <b>6</b> | Next Scheduled Outage  |
| <b>7</b> | Optional   |

#### COPYRIGHT 2014

The information published in this Technical Information Letter is offered to you by GE in consideration of its ongoing sales and service relationship with your organization. However, since the operation of your plant involves many factors not within our knowledge, and since operation of the plant is in your control, ultimate responsibility for its continuing successful operation rests with you, GE specifically disclaims any responsibility for liability based on claims for damage of any type, i.e. direct, consequential or special that may be alleged to have been incurred as result of applying this information regardless of whether it is claimed that GE is strictly liable, in breach of contract, in breach of warranty, negligent, or is in other respects responsible for any alleged injury or damage sustained by your organization as a result of applying this information.

This Technical Information Letter contains proprietary information of the General Electric Company, USA and is furnished to its customer solely to assist that customer in the installation, testing, operation and/or maintenance of the equipment described. This document shall not be reproduced in whole or in part nor shall its contents be disclosed to any third party without the written approval of GE Oil & Gas, Measurement & Control, Quality.

## BACKGROUND DISCUSSION

Masoneilan SVI FF Smart positioners were introduced for sale in 2014 and were FM certified as flameproof, explosion proof, and to the intrinsic safety requirements for FM, FMc, ATEX, and IEC Standards. A recent review of the electronics by the certifying body discovered an error in technical specifications that precludes the product from being certified as Intrinsically Safe in Class I, Division 1 Groups A & B, Zone 0 Group IIC or Zone 1 Group IIC areas. The potential risk was identified during an internal evaluation of this product.

Figure 1 - SVI FF Product Picture



Below is a list of recommendations for managing relevant units currently installed in the field. The risk of not following the recommendations of the TIL and failure to comply with installations in accordance with local and national codes and standards could result in potential hazards for explosion or burns.

## RECOMMENDATIONS

Inspect all SVI FF positioners and verify if they have a serial number in the range between FA020100001 and FA02459999. Next verify that the SVI FF is installed in any installation requiring the following classifications.

### Intrinsically Safe & FISCO

#### Factory Mutual Approvals

Class I Division 1 Groups A, B, T6..T4  
 Class I, Zone 0 AEx ia IIC T6..T4 Ga  
 Class I, Zone 1 AEx ib IIC T6..T4 Gb

#### Canada Approvals (FMc):

Class I, Division 1, Groups A,B T6...T4  
 Class I, Zone 0, Ex ia IIC T6...T4 Ga  
 Class I, Zone 1, Ex ib IIC T6...T4 Gb

#### ATEX Approvals:

II 1G Ex ia IIC T6...T4 Ga  
 II 1G Ex ib IIC T6...T4 Gb

#### IECEx Approvals:

Ex ia IIC T6...T4 Ga  
 Ex ib IIC T6...T4 Gb

If you do have any of these SVI FF positioners in the identified serial # range, AND the installed classification requirement is verified as being listed above, **THESE POSITIONERS MUST BE REMOVED FROM SERVICE IMMEDIATELY AND REPLACED WITH A CERTIFIED INTRINSICALLY SAFE DEVICE.**

**Consult your local representative or email at [svisupport@ge.com](mailto:svisupport@ge.com) for assistance in selecting a replacement device.**

For SVI FF positioners installed in other Intrinsically Safe areas, a secondary label is required to be affixed to the SVI FF specifying that this product not be subsequently installed in Class I, Division 1 Groups A & B, Zone 0 Group IIC or Zone 1 Group IIC areas. **Consult your local representative or email at [svisupport@ge.com](mailto:svisupport@ge.com)** to obtain this secondary label and associated instructions.

If the SVI FF is in any other installation, verify that the installed classification is correctly and permanently marked on the serial number label as referenced on the product label and the Special Instructions for Installation Guide (ES-776). No further action on these devices is required.

All inspections and installation verifications must be conducted by a licensed, certified professional and conducted in accordance with all applicable codes and standards.

## PLANNING INFORMATION

### Manpower Skills

The product service recommended in this letter should be carried out by a licensed electrician.

### Parts & Special Tooling

N/A

### Reference Documents

Local and National codes and standards for electrical installations

Local and National codes for Hazardous (classified) areas

ES-776: SPECIAL INSTRUCTIONS FOR INSTALLING Masoneilan SVI FF POSITIONER IN AREAS WHERE THERE IS A POTENTIAL FOR EXPLOSIVE GAS ATMOSPHERE OR FLAMMABLE DUST

### Model Numbers Affected

SVI-abcdefgh, where "a" thru "h" can take on the following values:

- a= 1..X. Indicates internal firmware style.  
(NOT RELEVANT TO PROTECTION TYPES)
- b= 1, 2. Indicates pneumatic train type.  
(1 = SINGLE ACTING, 2 = DOUBLE ACTING)
- c= 1, 2. Indicates pneumatic flow.  
(1 = STANDARD FLOW, 2 = HIGH FLOW)
- d= 1, 2, 3, 4. Indicates display type and housing material.  
(1 = NO DISPLAY; NO BUTTONS; ALUMINUM)  
(2 = DISPLAY; BUTTONS; ALUMINUM)  
(3 = NO DISPLAY; NO BUTTONS; STAINLESS STEEL)  
(4 = DISPLAY; BUTTONS; STAINLESS STEEL)
- e= F, P. Indicates communication protocol.  
(F = FOUNDATION FIELDBUS. P = PROFIBUS)
- f= 1..X. Indicates options turned on by firmware.  
(NOT RELEVANT TO PROTECTION TYPES)
- g= 2. Indicates agency approvals.  
(UNI-LABEL; ATEX, IEC, FM, FMc)
- h= 1. Indicates North American Zone Approvals  
2...X. Indicates additional region specific approvals.  
(NOT RELEVANT TO PROTECTION TYPES)