IMPORTANT NOTICE TO ALL USERS OF ILE EX SENSING HEADS

The Siemens Milltronics ILE-37 EX and ILE-61 EX Hazardous-Rated Solids Flowmeter Sensing Heads are used in hazardous-rated solids impact flowmeter models E-40, E-300, V-40, V-300, A-40, A-300 and C-40. The sensing heads are certified by CSA for use in the following hazardous classifications: Class I, Div. 1, Groups C and D; Class II, Div 1, Groups E, F and G; and Class III.

It has recently come to our attention that certain of the ILE-37 EX and ILE-61 EX are not in compliance with the CSA hazardous classification ratings. Specifically, the method of assembly of the potted seal for the EX LVDT cable to the junction box does not meet the CSA Class I, Div 1, Groups C and D requirements.

The EX model sensing heads have been sold and installed during the past 25 years. To our knowledge, the sensing heads have operated without incident. However, in applications where there are explosive gases present, or if an explosion occurred within the sensing head enclosure, there is a potential risk that the gases or fire might not be contained before the junction box.

AS A PRECAUTION, WE REQUEST THAT YOU TAKE THE FOLLOWING STEPS:

- 1. Immediately take out of service any EX-rated units manufactured before June 2003 by turning the power off to the integrator that is connected to the solids flowmeter in question.
- 2. Complete the attached Solids Flowmeter Application Data Sheet and send it to the appropriate Siemens contact listed below. We will review your application and help you identify if yours is a Class I application.
- 3. If your application is affected, you will need to install an extra potted seal fitting immediately after the junction box. Your EX model sensing head can be returned to service <u>ONLY</u> after an extra potted sealing fitting has been installed. This seal should be installed only by a licensed industrial electrician in accordance with the attached drawing.

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Send your completed Application Data Sheet to:

Below is additional information, including:

- Drawing showing the corrective action required
- Photos that will help you identify the products involved
- Questions and answers
- Solids Flowmeter Application Data Sheet



Photos of Products Involved



ILE-37 Base Mount Showing Existing Sealing Fitting and Junction Box



ILE-61 Showing Existing Sealing Fitting and Junction Box



ILE-37 Side Mount Showing Existing Sealing Fitting and Junction Box



ILE-61 in E-300 Solids Flowmeter Application

C-40 Solids Flowmeter Showing Existing Sealing Fitting and Junction Box



ILE-37 Base Mount in V-40 Solids Flowmeter Application

QUESTIONS AND ANSWERS REGARDING THE ILE-37 EX AND ILE-61 EX HAZARDOUS-RATED SOLIDS FLOWMETER SENSING HEADS

Has there been an accident or incident involving the Hazardous rated ILE-37 and ILE-61?

The sensors have been for sale and installed in the field for over 25 years. To the best of our knowledge, they have operated without incident and there have been no accidents as a result of the use of these models.

Where are the ILE-37 EX and ILE-61 EX used?

They are sensing heads used for hazardous rated applications with solids flowmeter models E-40, E-300, V-40, V-300, A-40, A-300 and C-40 and any variation of those products.

What approvals do they carry?

The ILE-37 EX and the ILE-61 EX are certified by CSA for use in hazardous classifications Class I, Div. 1, Groups C and D and Class II, Div. 1, Groups E, F, and G and Class III.

Is there concern about all hazardous applications?

No. Our concern is limited to flowmeters installed in Class I Groups C and D classified locations and those applications involving the NFPA rated Coal Scale.

Why, after all these years, does the suitability of the product become an issue?

In a recent Siemens internal audit, it was found that a part of the assembly process was not being performed correctly. This creates potential risks for Class I applications. The assembly process has been corrected and now matches that of the CSA approval. This concern is for all products shipped from Arlington, Texas or Modesto, California operations over the last 12 years.

Are the ILE-37 EX and ILE-61 EX still available for sale?

Yes.

What is the danger of the ILE-37 EX and ILE-61 EX?

In a Class I, Div. 1,Group C & D rated application, there is a chance of transmission of gases or fire from the sensing head to the EX junction box should an explosion occur within the sensing head's enclosure. There may not be adequate sealing in the potted fitting that the EX LVDT cable travels through. If a sealing fitting has been properly installed to the other side of the junction box, there is no risk of transmission of the gases or an explosion being transmitted through the conduit system.

Can I return the unit to Milltronics for repair?

This should not be necessary. If an extra sealing fitting can be installed immediately after the EX junction box, system safety will no longer be in jeopardy. This is a fairly common task that can be performed on site by a qualified industrial electrician. If returning the sensing head is the desired solution by the customer, the local Siemens Milltronics representative should be contacted or contact Billy Jenkins at 972.522.4520 to allow us to issue a returned goods authorization form and number.

Will Siemens Milltronics remove the current product from my site and replace it when repaired?

No. A qualified technician or electrician supplied by the customer should remove and replace any equipment, if the customer chooses to return the sensing head.

SIEMENS

Solids Flowmeter Application Data Sheet

Customer information

Contact:		Prepared By:	
Company:		Date:	
Address:		Notes on the Application:	
City:	Country:		
Zip/Postal Code: I	Phone: ()		
E-mail: I	Fax: ()		
Material Information			
Material being measured:		Particle size:	mm / inch / mesh
Bulk density:	kg/m ³ or lb/ft ³	Moisture content:	%
Angle of repose:	degrees	Is material aerated?	Yes No
Material temperature:	C / F		
Material properties: Hyg	roscopic 🗌 Corrosive 🔲	Easily aerated 🗌 Abrasive	Other
Material flow characteristics:	Smooth Sluggish	Sticky/Clumping Othe	er
Application Information (Sum	alv sketch where possible showing pre-fee	d and out-feed device dimensions) Sketch ;	attached
Feed rate:	maximum t/hr or kg/hr or lb/hr	r or LTPH or STPH	
	normal t/hr or kg/hr or lb/hr	r or LTPH or STPH	
Accuracy required: + /	minimum t/hr or kg/hr or lb/hr %	r or LTPH or STPH	
Pre-feed type: Rotary Be	It Screw Vibratory pan	Aerated gravity Bucket conveyor elevator	Other (specify)
Flow rate: Constant	Variable Pulsing	Flowmeter will discharge into):
Headroom available:	ft / m	Temperature at flowmeter:	max min. C / F
Sensing plate subjected to air f	low: 🗌 None 🗌 Some	9	
Material test can be performed:	Yes No		
Estimated distance from pre-fe	ed discharge to flowmeter:		mm / inches
Electrical classification in flowr	neter environment:		
Integrator Requirements (ind	licate all that apply) Power av	ailable:	
Inputs required:	Outputs require	ed: Communi	cations:
4-20 mA (specify)	4-20 mA	🗌 AB Re	mote I/O
PID PID			Net
	Remote total	lizer 🗌 Profibu	is-DP
Load Cells (#):	🗌 Relays (#): _	RS-232	2/RS-485 Modbus
Products suggested:			
Preferred Construction (flowguide and sensing plate enclosure):	Painted mild steel 304 St	S 🗌 316 SS 🗌 Other (specify	/)

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