



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0086X/2**

4 Equipment or Protective System: **HS-420 Series Accelerometer**

5 Manufacturer: **Hansford Sensors Limited**

6 Address: **Saunderton, Bucks, HP14 4JE**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa08ATEX0086X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **5943**

Project File No. **08/0558**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
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**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa



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## **Schedule**

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**Certificate Number Baseefa08ATEX0086X/2**

### **15 Description of the variation to the Equipment or Protective System**

#### **Variation 2.1**

To permit the introduction the HS-420IT or HS-422IT Accelerometer, with an integral temperature sensor and associated electrical connections.

The terminal parameters for all four electrical connections considered as a single intrinsically safe circuit are as follows:

$$\begin{aligned}U_i &= 44V \\I_i &= 117mA \\P_i &= 0.722W \\C_i &= 3nF \\L_i/R_i &= 13nH/\Omega\end{aligned}$$

### **16 Report Number**

GB/BAS/ExTR08.0181/00

### **17 Special Conditions for Safe Use**

None additional to those listed previously

### **18 Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

### **19 Drawings and Documents**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
HS420IT	1 of 1	B	09.09.08	HS-420IT/HS-422IT 4-20mA Circuit
P01-027	1 of 1	B	09.09.08	HS420IT Connection PCB for M12 Connector
P02-027	1 of 1	B	09.09.08	HS420IT Connection PCB
M06-022-A	1 to 4	A	23.06.08	General Arrangement and Product Information for Group II HS-420IT & HS-422IT Series Accelerometers

These drawings are associated and held with IECEx BAS 08.0034X