



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 10ATEX4123X** Issue: **10**

4 Equipment: **1202 – Z2 Non-sparking industrial PC**

5 Applicant: **HMi Elements Ltd.**

6 Address: Unit A + B Windmill Industrial Estate
Showfield Lane
Malton
North Yorkshire YO17 6BT
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2009 EN 60079-11:2007 EN 60079-15:2010 EN 60079-31:2008
EN 60079-0:2006 (has been included in the list of standard because there is a dated reference to it in EN 60079-11:2007)

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 3GD
Ex nA IIC T4 Gc
Ex tc IIIC T135°C Dc IP66
(For ambient temperature ranges, see clause 17.5)

With Intrinsically Safe interface board



II 3 (3)GD
Ex nA [ic] IIC T4 Gc (Gc)
Ex tc IIIC T135°C Dc IP66
(For ambient temperature ranges, see clause 17.5)

Project Number 0527

Signed:

Title: Director of Operations

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13 DESCRIPTION OF EQUIPMENT

The 1202 – Z2 Non-sparking industrial PC is a flange mounting, 15" workstation that is designed for use in industrial conditions. The housing is fabricated from powder coated aluminium and provides an ingress protection of IP66, a touch screen is provided in the cover behind a glass window. The equipment is supplied with 100 to 240 V a.c., 47 to 63 Hz via a 1.5 mm² connection cable; the power supply and the connection of peripheral equipment are achieved using cable glands that are fitted in the connection box at the rear of the housing. The 1202 contains the following:

- 15" Display
- Projected capacitive touchscreen (PCT)
- One of the following processors:
 - Intel® Core™2 Duo 2.16 GHz
 - Intel® Core™ Duo 2.0 GHz
 - Intel® Celeron M 1.86 GHz
 - Intel® Atom 1.6 GHz

The 1202 may be stored at temperatures ranging from -40°C to +80°C, however, the lower temperature is limited to -20°C when it is fitted with Hummel HSK-V-Ex stopping plugs.

The equipment may be fitted with a PS2/RS232 Interface, which contains two shunt zener diode interfaces. The PS2 interface allows the equipment to be connected to a computer or similar device in the non-hazardous area and a suitably-certified external keyboard in a zone 2 hazardous area. The RS232 interface allows similar connections to a suitable device.

The nominal supply voltage (Un) is 12 Vdc. Um = 250 Vac or dc. The safety description of the PS2/RS232 Interface is as follows:

	Keyboard connector, (CN2 on interface)	RS232 connector, (CN4 on interface)
Uo	5.355 V	13.8 V
Io	0.246 A	0.132 A
Po	0.561 W	0.456 W
Ci	11.33 µF	0
Co (see Notes)	494 µF	2.1 µF
Li	0	0
Lo (see Notes)	660 µH	2295 µH

Notes:

- 1 The outputs from CN2 and CN4 should be assessed as separate intrinsically safe circuits.

Variation 1 - This variation introduced the following changes:

- i. The introduction of a 24 V D.C. version, the equipment being supplied with 19 - 29 V d.c. via a 1.5 mm² connection cable.
- ii. The use of the 1202 in explosive dust atmospheres was allowed, the marking being amended accordingly.
- iii. The rease in the height and width of the main enclosure by 10 mm was approved.
- iv. The introduction of an alternative heat sink on the rear of the main enclosure.

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Variation 2 - This variation introduced the following changes:

- i. The introduction of heater mats allowing the use of the 1202 at -40°C, this is recognised in the marking.
- ii. The connection of an intrinsically safe interface board to allow the connection of a suitably certified external device was endorsed. The equipment is marked Ex nA [ic] IIC T4 Gc (Gc) in this arrangement, a new Special Condition for Safe use is introduced as a result of this change. The nominal supply voltage (Un) is 12 Vdc. Um = 250 V ac or dc. The safety description of the PS2/RS232 Interface is included in the description above.
- iii. The introduction of marking external connections.
- iv. The introduction of a 2 position switch for use on the ATEX certified 1202 with a temperature range of -20°C to +50°C.

Variation 3 - This variation introduced the following changes:

- i. Alternative PC boards for use in ambient temperatures of +50°C, 36 W PC, and +60°C, 13 W PC, were introduced.
- ii. The introduction of connectors for external circuits was recognised, this includes the application of a new Special Condition for Safe Use.
- iii. The use of a fibre media converter and Wi-Fi module was endorsed.
- iv. A new condition of Certification and a new Special Condition For Safe Use were applied; this is to clarify the ambient temperature ranges associated with the finished 1202 Workstations.

Variation 4 - This variation introduced the following changes:

- i. A number of new connectors and cable glands were introduced into the range of available cable entry options, some of these devices are not previously certified and new Special Conditions for Safe Use have been applied for these options, in addition, the dust marking is not applied when the Rota Connectors are fitted.
- ii. The introduction of an alternative Wi-Fi module and an alternative inverter board was approved.
- iii. The previously specified upper ambient temperature of +50°C was raised to +55°C/ +60°C; the associated Condition of Certification being amended accordingly.

Variation 5 - This variation introduced the following changes:

- i. The introduction of a 19" display version of the 1202 was approved; Condition of Certification 17.5 is amended accordingly.
- ii. The option to permit conformal coating of circuits was endorsed.
- iii. The introduction of the option to replace SSD (Solid State Drive) with 4 W rugged HDD (Hard Disk Drive) was acknowledged.



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Variation 6 - This variation introduced the following changes:

- i. The modification to the heatsink to allow a lower fin height.
- ii. The introduction of the IS683 AC input filter and modification of the IS557 DC input board.
- iii. The inclusion of an alternative Wi-Fi modules and Fibre Media Converter.
- iv. The inclusion of a glare and reflection reduction coating to the touch screen glass.
- v. The modification of the gasket tolerances.
- vi. The inclusion of captive fixing screws for the connector Break Out Box (BOB).
- vii. The assessment of the IS641 PS/2 Barrier Card with revised entity parameters for the keyboard connector (CN2 on interface), the previous values are retained below for reference:

Keyboard connector, (CN2 on interface)						
Uo	Io	Po	Ci	Co (see Notes)	Li	Lo (see Notes)
5.355 V	0.300 A	0.752 W	11.33 µF	494 µF	0	444 µH

Notes: refer to those below the table in the description

The description was modified to reflect this change.

- viii. The introduction of cover plate to the IS549 and IS 556 interface board to provide IP20 to the intrinsically safe connections.
- ix. The introduction of an alternative connector to the range.
- x. The introduction of alternative LCD displays to the range.
- xi. The removal of the encapsulant from the existing LED backlight driver.
- xii. Minor alterations to existing drawings; including the rationalisation of drawing suite, the modifications of which do not affect the safety aspects of the equipment.
- xiii. A revised manufacturer's documentation list was created to rationalise all previous documents whilst incorporating all modifications included in this assessment.

Variation 7 - This variation introduced the following changes:

- i. The Applicant's name was changed:

From:
iSiS-Ex Limited

To:
Smart-Ex Technology Limited

- ii. The product name was changed from iSiS1302 Industrial PC to 1202-Z2 Industrial PC and the description was amended accordingly

Variation 8 - This variation introduced the following changes:

- i. The Applicant's name was changed:

From:
Smart-Ex Technology Limited

To:
HMi Elements Ltd.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

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14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	26 October 2010	R21236A/00	The release of the prime certificate.
1	08 December 2010	R23685A/00	The introduction of Variation 1.
2	24 February 2011	N/A	Issued to correct a typographical error in the marking.
3	17 August 2011	R23685B/00 R23685C/00	The introduction of Variation 2.
4	18 August 2011	R24779A/00	The introduction of Variation 3.
5	05 April 2012	R27275A/00	The introduction of Variation 4.
6	27 April 2012	R27566A/00	The introduction of Variation 5.
7	27 March 2014	R29634A/00	The introduction of Variation 6.
8	30 May 2017	R70075678A	This Issue covers the following changes: <ul style="list-style-type: none">• Type Examination Certificate in accordance with 94/9/EC updated to Type Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such Type Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>• The introduction of Variation 7.
9	05 April 2018	R70173717A	The introduction of Variation 8.
10	15th October 2019	0527	<ul style="list-style-type: none">• Transfer of certificate Sira 10ATEX4123X from Sira Certification Service to CSA Group Netherlands B.V..

15 SPECIFIC CONDITIONS OF USE

- 15.1 To prevent the development of hot surfaces exceeding the temperature class, the user shall mount the PC with screen orientated vertically and in landscape.
- 15.2 The user/installer shall install the 1302 taking into account any restrictions or special conditions for safe use that are applicable to the previously certified devices that are fitted to the 1302.
- 15.3 When fitted with the keyboard interface, the user shall ensure that the equipment is connected to a barrier safety earth that complies with EN 60079-14:2008 clause 12.2.4.
- 15.4 The 1302 Workstations shall be installed and used within the ambient temperature range that is marked on the product, however, when the products are being stored, the lower temperature remains the same, but the maximum temperature may be raised to 80°C.
- 15.5 When a USB connector or PS/2 multi-pin connector is utilised, the rear of the 1302 shall be located in a position offering a low risk of impact to the connectors.

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- 15.6 When USB and RJ45 connectors or N-Type connectors are used, transient voltage protection shall be provided by the external circuits to ensure that transient overvoltage's to the connectors cannot exceed 140% of 85 V.
- 15.7 When fitted with external connectors the following conditions shall be met:
- The connectors shall be electrically isolated before any attempt is made to remove the covers or join or separate the two halves
 - Following disconnection, the energised power supply shall only be connected to the connector part orporating the socket connections.
 - The plug and connector part containing the pin connections shall not be connected to equipment containing a power supply or energy storage devices likely to cause the plug to remain energised after disconnection.
 - When separated, the flameproof caps shall be fitted and locked immediately and before any associated supply cables are re-energised.
- 15.8 The 1302 with 19" screen shall be located where there is a low risk of impact.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed reports listed in Section 14.2.

Certificate Annexe



Certificate Number: Sira 10ATEX4123X

Equipment: 1202 – Z2 Non-sparking industrial PC

Applicant: HMi Elements Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2557	1 to 2	C	25 Oct 10	GA Drawing and Certification Part list
60-04-2558	1 of 1	C	19 Oct 10	ISIS 1200 Instrument Enclosure Label
60-04-2727	1 of 1	A	25 Oct 10	ISIS 1200 Standard Connection Box Certification Drawing
60-04-2728	1 of 1	A	25 Oct 10	ISIS 1200 15" Touch Screen Glass Certification Drawing
60-04-2730	1 of 1	B	25 Oct 10	ISIS 1200 Glass Gasket Certification Drawing
60-04-2731	1 of 1	B	25 Oct 10	ISIS 1200 Connection Box Gasket Certification Drawing
60-04-2732	1 of 1	B	25 Oct 10	ISIS 1200 Antenna Blanking Plate Gasket Certification Drawing
60-04-2733	1 of 1	B	25 Oct 10	ISIS 1200 Enclosure Heatsink Gasket Certification Drawing
60-04-2734	1 of 1	B	25 Oct 10	ISIS 1200 Flash Drive Blanking Plate Gasket Certification Drawing
60-04-2735	1 of 1	A	25 Oct 10	ISIS 1200 Custom Connection Box Certification Drawing - HAZ001
60-04-2736	1 to 2	B	25 Oct 10	ISIS 1202 Base Certification Drawing
60-04-2737	1 of 1	A	25 Oct 10	ISIS 1202, AC Standard, Electrical Connections Information
60-04-2738	1 of 1	B	25 Oct 10	ISIS 1200 Lid Certification Drawing
60-04-2739	1 of 1	A	25 Oct 10	ISIS 1200 Internal Earth Stud Arrangement Certification Drawing
60-04-2740	1 of 1	A	25 Oct 10	IUU120-302 PSU Potting Detail Certification Drawing
60-04-2748	1 of 1	A	25 Oct 10	IS544 Connectors
60-04-2749	1 of 1	A	25 Oct 10	IS548 Connectors
60-04-2750	1 of 1	A	25 Oct 10	IS556 Connectors
60-04-2751	1 of 1	A	25 Oct 10	IS558 Connectors
60-04-2752	1 of 1	A	25 Oct 10	IS553 Connectors
60-04-2753	1 of 1	A	25 Oct 10	AC Input board layout
60-04-2754	1 of 1	A	25 Oct 10	PCB Terminal block
60-04-2755	1 of 1	A	25 Oct 10	PCB Terminal block
PS-C20016(2)	1 of 1	-	25 Oct 10	Solder direct holder for CPU mounted button cell
60-04-2551	1 of 1	A	25 Oct 10	Parts list for IS555 Input fuse assembly
60-04-2555	1 to 3	C	25 Oct 10	Parts list for IS556 connector box interface board
GH115A(A1)	1 of 1	-	22 Oct 10	Inverter board
55-08388-03*	1 to 8	C	22 Oct 10	PSU circuit layout drawings

* Amended by Sira

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2557	1 to 2	D	22 Nov 10	GA Drawing and Certification Part list
60-04-2558	1 of 1	D	22 Nov 10	ISIS 1200 Instrument Enclosure Label
60-04-2573	1 of 1	A	22 Nov 10	DC Input board parts list
60-04-2573	1 of 1	A	22 Nov 10	DC Input board schematic
60-04-2730	1 of 1	D	22 Nov 10	ISIS 1200 Glass Gasket Certification Drawing
60-04-2733	1 of 1	C	22 Nov 10	ISIS 1200 Enclosure Heatsink Gasket Certification Drawing
60-04-2736	1 to 2	C	22 Nov 10	ISIS 1202 Base Certification Drawing
60-04-2738	1 of 1	C	22 Nov 10	ISIS 1200 Lid Certification Drawing

Issue 2 No new drawings were introduced.

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Certificate Number: Sira 10ATEX4123X

Equipment: 1202 – Z2 Non-sparking industrial PC

Applicant: HMI Elements Ltd.

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2514	1 to 3	A	04 Feb 2011	IS549 Connector board assembly parts list
60-04-2557	1 to 3	K	26 Apr 2011	GA Drawing and Certification Part list
60-04-2753	1 of 1	B	21 Mar 2011	IS553 and IS558 AC Input board layout
60-04-2820	1 of 1	A	04 Feb 2011	IS549 Connectors parts list
60-04-2823	1 of 1	A	04 Feb 2011	LCD Heater mat
60-04-2824	1 of 1	A	04 Feb 2011	Chassis Heater mat
60-04-2825	1 of 1	A	04 Feb 2011	CPU Heater mat
D500008	1 of 1	A	21 Mar 2011	Potting of PSU
D456465	1 of 1	A	16 Mar 2011	Label for ISIS 1202
D456467	1 of 1	B	18 Mar 2011	Label for ISIS 1202 with switch
60-04-2645	1 to 2	C	16 Aug 11	Interface schematic
D456408	1 of 1	C	16 Aug 11	Interface fuse encapsulation
D456447	1 to 3	C	16 Aug 11	Interface artwork
D456449	1 of 1	C	16 Aug 11	Interface parts list

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2557	1 to 3	R	18 Aug 11	GA Drawing and Certification Part list
60-04-2558	1 of 1	E	18 Aug 11	Label for ISIS 1202

Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2557	1 to 3	S	03 Apr 12	GA Drawing and Certification Part list
60-04-2558	1 of 1	F	17 Apr 12	Label for ISIS 1202
FM-TN-024-A	1 of 1	-	03 Apr 12	Inverter process
D100004	1 of 1	A	03 Apr 12	Fischer Connector
D100026	1 of 1	A	03 Apr 12	Inverter
D100028	1 of 1	A	03 Apr 12	N-Type Connector
D100029	1 of 1	A	03 Apr 12	RJ45 Connector
D100030	1 of 1	A	03 Apr 12	USB Connector

Issue 6

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2557	1 to 4	T	20 Apr 12	GA Drawing and Certification Part list
D100035	1 of 1	A	20 Apr 12	19" Lid
D100038	1 of 1	A	20 Apr 12	19" touchscreen glass
D100039	1 of 1	A	20 Apr 12	19" screen glass gasket
D100040	1 of 1	A	20 Apr 12	19" display chassis
D100041	1 of 1	A	20 Apr 12	19" display glass clamp
D100042	1 of 1	A	20 Apr 12	Heater mat for 19" display
D100045	1 of 1	A	27 Apr 12	Backlight driver potting

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Certificate Annexe



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Equipment: 1202 – Z2 Non-sparking industrial PC
Applicant: HMi Elements Ltd.

Issue 7: This list replaces all of the above drawing lists which have been retained for reference.

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2514	1 to 3	B	19 Mar 14	IS549 Connector Board Assembly
60-04-2555	1 to 3	D	19 Mar 14	IS556 Connector Box Interface board Assembly
60-04-2557	1 to 4	U	19 Mar 14	GA Drawing And Certification Parts List for ISIS 1202 (ATEX/IECEX)
60-04-2558	1 of 1	H	19 Mar 14	ISIS 1202 ATEX/IECEX Instrument Enclosure Label
60-04-2573	1 of 1	B	19 Mar 14	IS557 DC input Board Assembly
60-04-2728	1 of 1	B	19 Mar 14	ISIS 1202 15" Touch Screen Glass
60-04-2730	1 of 1	E	19 Mar 14	ISIS 1202 15" Glass Gasket
60-04-2731	1 of 1	C	19 Mar 14	ISIS 1202 Connection Box Gasket
60-04-2732	1 of 1	C	19 Mar 14	ISIS 1202 Antenna Blanking Plate Gasket
60-04-2733	1 of 1	D	19 Mar 14	ISIS 1202 Enclosure Heatsink Gasket
60-04-2734	1 of 1	C	19 Mar 14	ISIS 1202 Flash Drive Blanking Plate Gasket
60-04-2735	1 of 1	D	19 Mar 14	ISIS 1202 Custom Connection Box
60-04-2736	1 to 2	D	19 Mar 14	ISIS 1202 Base
60-04-2737	1 of 1	B	19 Mar 14	ISIS 1202 PC Electrical Connections Information
60-04-2738	1 of 1	E	19 Mar 14	ISIS 1202 15" Lid
60-04-2739	1 of 1	B	19 Mar 14	ISIS 1202 Internal Earth Stud Arrangement
60-04-2740	1 of 1	B	19 Mar 14	IUU120-302 PSU Potting Detail
60-04-2753	1 of 1	C	19 Mar 14	IS553 and IS558 AC Input board
60-04-2754	1 of 1	B	19 Mar 14	Phoenix Contact 2.54mm Pitch PCB Terminal Block
60-04-2755	1 of 1	B	19 Mar 14	Tyco 7.62mm Pitch PCB Terminal Block
60-04-2823	1 of 1	B	19 Mar 14	ISIS 1202 15" LCD Heater mat
60-04-2824	1 of 1	B	19 Mar 14	ISIS 1202 Chassis Heater mat
60-04-2825	1 of 1	B	19 Mar 14	ISIS 1202 CPU Heater mat
D100004	1 of 1	B	19 Mar 14	Fischer DBEE '103 Z056-130' Connector
D100022	1 of 1	B	19 Mar 14	ISIS 1202 Heatsink
D100026	1 of 1	B	19 Mar 14	Silicone Encapsulation of Power Systems Inverter PS-DA0284-01
D100028	1 of 1	C	19 Mar 14	Interface Components N-type Bulkhead Connector
D100029	1 of 1	B	19 Mar 14	Amphenol Socapex RJ45 Bulkhead Connector - RJFTVX7SA1N
D100030	1 of 1	C	19 Mar 14	Amphenol Socapex USB Bulkhead Connector - USBFTVX7SA2N03A
D100035	1 of 1	B	19 Mar 14	ISIS 1202 19" Lid
D100038	1 of 1	B	19 Mar 14	ISIS 1202 19" touchscreen glass
D100039	1 of 1	B	19 Mar 14	ISIS 1202 19" Glass Gasket
D100041	1 of 1	B	19 Mar 14	ISIS 1202 19" Glass Clamp
D100042	1 of 1	B	19 Mar 14	ISIS 1202 LCD Heater Mat
D100101	1 of 1	A	19 Mar 14	Amphenol TVS07 RF Series Connector
D100117	1 of 1	A	19 Mar 14	IS 549 Cover plate- Inner
D100118	1 of 1	A	19 Mar 14	IS 549 Cover plate- Outer
D100119	1 of 1	A	19 Mar 14	IS 556 Cover plate- Inner
D100120	1 of 1	A	19 Mar 14	IS 556 Cover plate- Outer

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Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D100124	1 to 2	A	19 Mar 14	IS683 AC Filter Board
D100125	1 of 1	A	19 Mar 14	ISIS 1202 - CPU Button Cell Solder Direct Holder
D100126	1 of 1	A	19 Mar 14	IS549 Cover Plate Blanking Cover
D100127	1 of 1	A	19 Mar 14	ISIS 1202 Flash Drive Blanking Plate
D100128	1 of 1	A	19 Mar 14	ISIS 1202 I/O Blanking Plate
D100129	1 of 1	A	19 Mar 14	ISIS 1202 Antenna Blanking Plate
D100130	1 of 1	A	19 Mar 14	ISIS 1202 15 h Glass Clamp
D100154	1 to 9	A0	19 Mar 14	1202 Automatic Dimming Technical Note
D456447	1 to 3	E	19 Mar 14	IS641 - Circuit schematic, PCB artwork, and component data
D500008	1 of 1	B	19 Mar 14	HPRG-300-24 PSU Potting Detail

Issue 8

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2558	1 of 1	I1	08 Feb 17	Smart-Ex 1202-Z2 enclosure label

Issue 9

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
60-04-2558	1 of 1	J0	16 Mar 2018	1202-Z2 Instrument Enclosure Label

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