

[1]

EU-TYPE EXAMINATION CERTIFICATE



[2]

Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3]

EU-Type Examination Certificate Number: **DEMKO 17 ATEX 1819 Rev. 4**

[4]

Product: **Load Cell Summation Equipment, HI6020JB and HI6020IT**

[5]

Manufacturer: **Hardy Process Solutions**

[6]

Address: **10075 Mesa Rim Road, San Diego, CA 92121 USA**

[7]

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **US/UL/ExTR17.0009/04.**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-11:2012

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12]

The marking of the product shall include the following:

II 1 G Ex ia IIC T4 Ga

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2017-04-18

Re-issued: 2023-06-23

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[14]

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[15]

Description of Product

The HI6020IT and HI6020JB are intrinsically safe load cell summation equipment used to combine the inputs from up to four load cells. The apparatus is provided power via three or four intrinsic safety barriers (not included with the equipment) as defined in the model specific control drawings. The equipment is type "ia" protection.

Series Nomenclature:

HI6020** - SS* - * - *
I II III IV

I: Series Designation:

HI6020JB = JB Summing box

HI6020IT = IT Summing Box ("Integrated Technician")

II: Load Cell Summing Card Options

-SS1 = Summing card in Stainless Steel Enclosure

-SS2 = Summing card in Stainless Steel Enclosure, with Trim Pots

III: Enclosure Openings

Blank = 5-hole Summing Box Enclosure

6 = 6-hole Summing Box Enclosure

IV: Cable Gland Option

Ex = No cable glands provided

Temperature range

The ambient temperature range is -10 °C to +60 °C.

Electrical data

Intrinsically safe specifications:

Intrinsic Safety Barriers Approved for Use in This System (ATEX)							
Supplier	Model	U _o (V)	I _o (mA)	P _o (mW)	Group	C _o (uF)	L _o (mH)
MTL	7766Pac	12.0	157.0	471.0	IIC	1.41	1.47
					IIB	9.00	4.40
					IIA	36.00	11.00
	7761Pac	9.0	26.0	225.0	IIC	4.90	56.00
					IIB	40.00	208.00
					IIA	500.00	419.00
	7710+	10.0	200.0	500.0	IIC	3.00	0.91
					IIB	20.00	2.72
					IIA	100.00	7.25
Pepperl + Fuchs	Z966.H	12.0	164.0	492.0	IIC	1.41	1.32
					IIB	9.00	5.28
					IIA	36.0	10.57
	Z961.H	8.7	25.0	54.4	IIC	5.9	56.88
					IIB	50.0	227.55
					IIA	1000	455.11
	Z710	9.56	195.0	466.1	IIC	3.6	0.93
					IIB	26.0	3.74
					IIA	210.0	7.48
R Stahl	9002/11-130-360-001	13.0	321.0	1040.0	IIC	1.0	0.19
					IIB	6.2	1.6
	9002/10-187-020-001	9,33	20.0	50.0	IIC	3.9	90.0
					IIB/IIA	29.0	330.0
	9001/01-086-150-101	8.6	150.0	322.5	IIC	6.2	1.3
IIB/IIA	55.0	7.0					

Notes:

- For more information, please refer to the Zener barrier manufacturer control drawings.
- IS Barriers used within a single system must be from the same supplier. Do not mix barrier suppliers within the same system.

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[14]

Schedule
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Routine tests
None

[16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17] Specific conditions of use:
None

[18] Essential Health and Safety Requirements
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information
The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

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