



Mining And Surface Certification (Pty) Ltd 2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

IA CERTIFICATE		-	
Lague Deta	MASC MS/18-0089X	Issue	2
Issue Date	30 April 2024	Expiry Date	30 April 2027
** Based on Certificate No	IECEx CES 06.0002X Issue / Variations / Amendment 3		
Requested by	Pepperl+Fuchs (Pty) Ltd Zerwick Forum, 8 Glen Eagle Office Park Cnr Monument Rd and Braambos St, Glen Erasmia, Kempton Park 1619, South Africa		
Manufacturer	Pepperl+Fuchs SE		
manalaotaroi	Lilienthalstrasse 200, 68307 Mannheim, Germany		
Description	For intrinsic safety applications they are associated apparatus. The devices HiC2025 and HiC2025A supplies 2-wire SMART transmitters in a hazardous area and can also be used with 2-wire SMART current sources. It transfers the analog input signal to the safe area as an isolated current value. The SMART Current Driver type HiC2031 repeats the input signal from a control system to drive HART I/P converters, valve actuators, and displays located in a hazardous area. For non incendive applications (type of protection Ex ec). The devices HiC2025 and HiC2025A are isolated apparatus suitable to supply/interface signal transmitter placed in hazardous area and transfer the analog signal to a safe area. The device HiC2031 is an isolated apparatus suitable to repeat a current signal coming from a safe area to drive smart I/P converter, valve actuator and displays placed in hazardous area.		
	Both products do not differ from those for Intrinsic Safety applications.		
	See **Base certificate annex	for further descrip	tion.
Equipment	Galvanically Isolated Barrier		025, HiC2025A and HiC2031
MARKING:	Type:		lated Barrier, type HiC2025, HiC2025A and
Original marking as per	51	HiC2031	
certificate ** remains	Ex Marking:	[Ex ia Ma] I	
applicable.		[Ex ia Ga] IIC	
IA number must be added.		[Ex ia Da] IIIC	
	IA Number:	Ex ec IIC T4 Gc	
	Warnings:		089X (To be additionally marked on equipment) icate ** (original marking must be applied)
Quality Assurance report (0		DE/PTB/QAR06	
Standards: • SANS (IEC) 60079-0:	2019 Equipment - General re 2019 Equipment protection by	quirements / increased safety	п
Note: This certificate covers	only the listed standards and do ensure that the product complie use "X":	pes not imply com	pliance to any other standard, related or inferred. It andards for the application.
Note: This certificate covers is up to the manufacturer to Special conditions of safe	only the listed standards and do ensure that the product complie use "X": for more details.	pes not imply com	pliance to any other standard, related or inferred. It andards for the application.
Note: This certificate covers is up to the manufacturer to Special conditions of safe Refer to Annex A below	only the listed standards and do ensure that the product complie use "X": for more details. :	pes not imply com	pliance to any other standard, related or inferred. It andards for the application.
Note: This certificate covers is up to the manufacturer to or Special conditions of safe • Refer to Annex A below Conditions of manufacture • Refer to Annex A below S. JORE	only the listed standards and do ensure that the product complie use "X": for more details. for more details.	pes not imply com	andards for the application.
Note: This certificate covers is up to the manufacturer to o Special conditions of safe o • Refer to Annex A below Conditions of manufacture • Refer to Annex A below	only the listed standards and do ensure that the product complie use "X": for more details. for more details.	bes not imply com s to all relevant st	n. VILOJEN TECHNICAL OFFICER
Note: This certificate covers is up to the manufacturer to Special conditions of safe u • Refer to Annex A below Conditions of manufacture • Refer to Annex A below S. JORE TECHNICAL S	only the listed standards and do ensure that the product complie use "X": for more details. : for more details. DAAN SPECIALIST This certificate covers all units s	old as long as the QAR/ cition units of explosion	andards for the application.
Note: This certificate covers is up to the manufacturer to Special conditions of safe u • Refer to Annex A below Conditions of manufacture • Refer to Annex A below S. JORE TECHNICAL S	only the listed standards and do ensure that the product complie use "X": for more details. for more details. for more details. DAAN SPECIALIST This certificate covers all units s the of the MHS Act and the OHS Act, produ assurance (an approved mark scheme Apparatus in hazardous locati as applicable, v SANS 10 Any conditions men Any relevant req Any restrictions and conditions enfo inspector (Group I equipment) or ch This certificate ma The certificate is not transferable a	old as long as the QAR/ s to all relevant st old as long as the QAR/ ction units of explosion or batch testing by an a ons is subject to the for which shall be adhered 086 requirements; tioned in the above ce uirements of the MHS orced by the chief insp- ief inspector of factori ay only be reproduced and remains the proper	Andards for the application.

IA CERTIFICATE: MASC MS/18-0089X

Equipment: Galvanically Isolated Barrier, HiC2025, HiC2025A and HiC2031 (Expiry date: 30 April 2027)

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ANNEX A

This	document is based on and must be read in conjunction with certificate IECEx CES 06.0002X.		
Description (According to Base Certificate) **			
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."			
Issue	Issue 1: Supplemented for review as per ARP 0108. Issue 2: Supplemented for review as per ARP 0108.		
Standard compliance	See Base Certificate **		
Special conditions of safe use ("X")	 Products shall only be used, with the designated PepperI+Fuchs HiC series, Termination Boards. <u>Installation in areas that requiring EPL Gc equipment</u> The equipment shall be installed in a suitably certified enclosure such that it is afforded a degree of protection of at least IP54 in accordance with IEC 60079-0, IEC 60079-7 & IEC 60529 and it shall be located and operated in a controlled environment that ensures a pollution degree 2, as defined in IEC 60664-1. The equipment must be installed and operated only in an environment of overvoltage category II (or better) according to IEC/EN 60664-1. Connection or disconnection of energized non-intrinsically safe circuits is only permitted in the absence of a potentially explosive atmosphere. 		
Conditions of manufacture	None.		
Conditions of Certification	 This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate. As per ARP 0108 a maximum three yearly review is required on this IA Certificate (expiry is determined as per the QAR/QAN/QMS expiry date). The apparatus must be additionally marked with the MASC marking details above. This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date. The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by the certificate on which this IA Certificate is based and any other conditions in this IA Certificate. The certification on which this IA Certificate is based must remain valid. The extent of the requirements in the ARP 0108 (or regulations), SANS 10108 and any other applicable regulations on the certification of the equipment must remain unchanged. The Ex-quality assurance notification/report for the equipment must remain valid. 		
Conclusion:	 From the above and the selective examination of the documentation, nothing contrary to the requirements of the applicable standards was found, provided that the equipment / component is used as described in the above document / certificate and according to the MASC conditions below. A MASC IA certificate is issued based on the work done as per the Base Certificate **. The routine tests for production units according to the Base Certificate ** must be complied with (if applicable). 		

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

MASC takes no responsibility for any non-conformances, exclusions, or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices.

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