





2015/021934/07

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

REGULATION 9 (1) OF	THE ELECTRICA	L MACHINERY REGULAT	TIONS OF THE OCC	UPATIONAL HEALTH	AND SAFETY ACT	
IA CERTIFICATE	MASC S/18-2	698	Issue	1		
Issue Date	10 August 202	21	Expiry Date	23 July 2024		
*Based on Certificate No	IECEx PTB 05	5.0001	Issue / Variation	ons / Amendment 3		
Requested by		I+Fuchs (Pty) Ltd				
	1st fl Zerwick Forum, Glen Eagle Office Park, Cnr Monument Rd and Braambos St, Glen Erasmia,					
	Kempton Park 1619					
	South Africa					
Manufacturer	Pepperl+Fuchs SE					
	Lilienthalstrasse 200, 68307 Mannheim					
	Germany					
Description	The Temperature Multi Input Device, type **D0-TI-*** is used to measure analogue signals as well as for					
	the bi-directional transfer of PROFIBUS or Foundation Fieldbus signals. The Temperature Multi Input					
	Device, type **D0-TI-*** is equipped with 8 analogue input circuits where resistance type sensors (e.g.					
	RTDs, potentiometers) or voltage sources (e.g. thermo- couple, active voltage sources) may be connected.					
	The Temperature Multi Input Device, type **D0-TI-*** may be operated as an intrinsically safe apparatus					
	or as an associated intrinsically safe apparatus. If used as an intrinsically safe apparatus inside the					
	explosion hazardous area the Temperature Multi Input Device, type **D0-TI-** is supplied by a certified intrinsically safe circuit (PROFIBLIS BA or Foundation Fieldbus). When provided as an associated					
	intrinsically safe circuit (PROFIBUS PA or Foundation Fieldbus). When operated as an associated intrinsically safe apparatus for the use outside the explosion hazardous area the Temperature Multi Input					
	Device, type **D0-TI-*** is supplied by a non-intrinsically safe circuit (PROFIBUS PA or Foundation					
	Fieldbus). The intrinsically safe analogue input circuits are safely isolated from the supply circuit up to a					
	peak value of 375 V of the nominal voltage. Permissible ambient temperature ranges for both applications:					
	-40 °C up to +70 °C Three versions of the Temperature Multi Input					
	Device **D0-TI-*** are available. See base certificate for version and electrical data.					
Equipment		Multi Input Device	Type	**D0-TI-***		
MARKING:	Туре	Temperature Multi Inp	ut Device, type **I	D0-TI-***		
Original marking as per	Ex Marking					
certificate * remains	Ex ic IIC T4 Gc resp. [Ex ia Da] IIIC					
applicable.	IA Number	ber MASC S/18-2698				
IA number to be added.	Warnings	See Base Certificate * and original marking				
			J			
Quality Assurance report (QAR) /		DE/PTB/QAR06.0008/16				
Notification (QAN):		AM				
Quality Assurance report (QAR) /		23 July 2024				
Notification (QAN) Expiry date:						
Compliance						

Compliance:

The equipment as described above has been allocated the Explosion Protected per rating above utilizing the SANS/IEC Standards:

- SANS (IEC) 60079-0: 2012 Explosive atmospheres Part 0: Equipment General Requirements
- SANS (IEC) 60079-11: 2012 Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"

Special conditions of safe use "X":

• See "Annex A" below

Conditions of manufacture:

• See "Annex A" below

N Viljoen/ TECHNICAL OFFICER D.P Visser

TECHNICAL SPECIALIST

This certificate covers all units sold as long as the QAR/QAN remains valid.

According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).

Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

SANS 10086 requirements;

Any conditions mentioned in the above report

Any restrictions and conditions enforced by the chief inspector of mines or chief inspector of factories

Any relevant requirements of the MHS Act.

This certificate amay only be reproduced in full.

This certificate is not transferable and remains the property of the issuing body

Mining And Surface Certification (Pty) Ltd Unit 5 Lelyta Park, 45 Jurg Ave, Hennopspark Ext 87 Centurion, 0157 /. ANNEX A...

IA CERTIFICATE: MASC S/18-2698 Equipment: Temperature Multi Input Device

Page 2 of 2

ANNEX A

This document is based on and must be read in conjunction with certificate IECEx PTB 05.0001.				
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.			
Standard compliance	See Base Certificate *			
Special conditions of safe use ("X")	• None			
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