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	MASC S/18-2698	**Issue**	2	
Issue Date	30 April 2024	**Expiry Date**	30 April 2027	
**** Based on Certificate No**	IECEx PTB 05.0001	**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** 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 (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 range for both applications:-40 °C up to +70 °C For electrical data see Base Certificate** annex.			
Equipment	Temperature Multi Input Device	**Type**	**D0-TI-***	
MARKING: **Original marking as per certificate ** remains applicable.** **IA number must be added.**	**Type:** **Ex Marking:** **IA Number:** **Warnings:**	Temperature Multi Input Device, type **D0-TI-*** Ex ia [ia Ga] IIC T4 Gb resp. [Ex ia Ga] IIC Ex ic IIC T4 Gc resp. [Ex ia Da] IIIC MASC S/18-2698 (To be additionally marked on equipment) See Base Certificate ** (original marking must be applied)		
Quality Assurance report (QAR) / Notification (QAN):		DE/PTB/QAR06.0008/20		

Compliance:

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

- SANS (IEC) 60079-0: 2012 Equipment - General requirements
- SANS (IEC) 60079-11: 2012 Equipment protection by intrinsic safety "i"

Note: This certificate covers only the listed standards and does not imply compliance to any other standard, related or inferred. It is up to the manufacturer to ensure that the product complies to all relevant standards for the application.

Special conditions of safe use "X":

- Refer to Annex A below for more details.

Conditions of manufacture:

- Refer to Annex A below for more details.

C. WELTHAGEN
TECHNICAL SPECIALIST

N. VILOJEN
TECHNICAL OFFICER

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 certificate;
Any relevant requirements of the MHS Act;
Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).

Mining And Surface Certification (Pty) Ltd
Unit 5 Lelyta Park, 45 Jurg Avenue, Hennopspark, Ext 87
Centurion 0157

IA CERTIFICATE: MASC S/18-2698
Equipment: Temperature Multi Input Device, **D0-TI-***
(Expiry date: 30 April 2027)

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. Issue 2: 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).

Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07
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