

Certificate of Conformity

Certificate No .:	ANZEx 22.3012	Current Issue: 0	Date of Issue:	2023-01-31	
Applicant:	PepperI+Fuchs SE Lilienthalstrasse 200 68307 Mannheim Germany				
Equipment:	Transducer type KFD2	2-WAC2-Ex1*			
Type of Explosio Protection:	n Intrinsic safety "[ia]"				
Explosion Protection Marki	[Ex ia Ma] I ng:				
ANZ Signed for and on	This certificate is granted su Joint Accreditation System of J ZEx System Rules 2020 & ANZ behalf of issuing body	bject to the requirements Australia and New Zealar Ex Certified Equipment S	as set out in nd Publications Scheme Rules 202	1	
	Name & Position	Ujen Singh – Manager, Quality	& Certification		
This certificate is not transferable and remains the property of the issuing body. The status of this certificate can be confirmed through the database located at <u>www.anzex.com.au</u>					
Certifica	te issued by:				
	Tes 919 Londonderry Road,	tSafe Australia Londonderry NSW 27	53 Australia		
JAS-ANZ	Page	1 of 5		Test	
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EPF019_24 - date issued: 17/02/2021



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Manufacturer:	Pepperl+Fuchs SE Lilienthalstrasse 200 68307 Mannheim Germany				
Additional Manufacturing Location(s):	Pepperl+Fuchs Asia PTR 18 Ayer Rajah Crescent Singapore 139942 Singapore	E Ltd.			
STANDARDS:					
The equipment and an documents, was found	ny acceptable variations to it specifi I to comply with the following stand	ed in the schedule of ards:	this ce	ertificate and the iden	tified
IEC 60079-0:2017 Ed	7 Explosive atmospheres Part	0: Equipment—General	require	ments	
IEC 60079-11:2011 E	d 6 Explosive atmospheres - Part	t 11: Equipment protecti	on by ir	ntrinsic safety "i"	
This Certificate does n included in the Standa	ot indicate compliance with safety a	and performance req	uireme	nts other than those	expressly
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,	This certificate and schedule r	may only be reproduced i	n full		



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Schedule							
Equipment Descri	ption:						
The Transducer typ area into the non-ha	e KFD2-WAC2-Ex1* is used for azardous area.	the transmission of sig	gnals from the hazardous	s explosive			
Electrical Ratings/	Parameters						
Technical data							
The permissible ten	nperature range is -20 °C to + 6	0 °C.					
Supply circuit (terr	ninals 23, 24 or via Power-Rail)	U = 20 V 35 Um = 40 V	V d.c.				
Collective error me	essage (via Power-Rail)	Um = 40 V					
Output circuits I ar (terminals 10, 11,	nd II 12 and 16, 17, 18)	alternating volt $U = 253 \vee a.c.$ I = 2 A $P = 500 \vee A$ $\cos \phi \ge 0.7$ $Um = 253 \vee$	age direct volta U = 40 V I = 2 A P = 80 W U m = 253	age V			
Output circuit III (te	erminals 7, 8, 9)	$U_m = 40 V$					
Input circuits II and	d III (terminals 13, 14, 15)	$U_m = 40 V$					
Programming sock	ket (jacket)	Um = 40 V					
RS485 interface (t or via Power-Rail)	erminals 19, 20 and 21	Um = 40 V					
Input circuit (termin	nals 1, 2, 3, 4, 5 and 6)	in type of prote connection of p Maximum value Uo = 14 V Io = 238 mA Po = 833 mW Ri = 59 Ω Characteristic P	in type of protection "Intrinsic Safety" Ex ia I, only for connection of passive components/devices. Maximum values: Uo = 14 V Io = 238 mA Po = 833 mW Ri = 59 Ω Characteristic line: linear Lo = 5 mH. Co = 17 µF				

In the case of simultaneous appearance capacitance Co and inductance Lo in concentrated form the maximum permissible value pairs have to be taken from the above values.

The input circuit is safely galvanically separated from all other circuits up to the peak values of the nominal voltage of 375 V.







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Specific Condition	s of Use:			
None.				
Additional Informa	tion:			
None.				
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Certificate of Conformity EX EQUIPMENT

Certificate No.:	ANZEx 22.3012	Current Issue:	0	Date of Issue:	2023-01-31	
Register of Issues and Variations includes the current issue						
Issue 0 dated (curr	<u>ent issue):</u>					
Test & Assessment	Reports relevant for this issu	<u>IE:</u>				
TR No. & Issuing (CBs: DE/TUN/Ex	xTR06.0013/00; TÜV NO				
	DE/TUN/E	xTR06.0014/00; TUV NO xTR06.0014/01: TÜV NO	RDCE	ERT GmbH		
	DE/TUN/E	xTR06.0014/02; TÜV NO	RD CE	ERT GmbH		
	DE/TUN/E	xTR06.0014/03; TUV NO	RDCE	ERT GmbH		
QAR No. & Issuing	g CB: DE/PTB/Q/	AR06.0008/18; PTB				
File Reference:	2022/0064	99				
Manufacturer's Documents/Drawings associated with this issue:						

Document/Drawing Number	Pages / Sheets	Document/Drawing Title	Revision	Date
16-484TV-02	1	Relevant Components KFD2-WAC2-Ex1*	Orig.	2004-05-25
16-484TV-03A	5	KFD2-WAC2-Ex1* (PCB Layout) (1st Supplementary TUV 04 ATEX 2531)	-	2009-07-31
16-484TV-04	10	KFD2-WAC2-Ex1* Display	Orig.	2004-05-17
16-484TV-06	3	Transformer KFD2-WAC2-Ex1*	Orig.	2004-05-17
16-484FM-01	6	KFD2-WAC2-Ex1.D* WAC2 – Amplifier (Schematic)	-	2009-03-31
16-484FM-05	5	KFD2-WAC2-Ex1.D* (<i>PCB Layout</i>)	-	2009-03-31
16-484FM-07	3	KFD2-WAC2-Ex1.D* (Assembly)	-	2008-08-12
16-0484TE-10	1	Type Label KFD2-WAC2-Ex1.D*	-	2022-12-02



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