

Annex 1 to:

NL/KEM/ExTR08.0006.01, IECEx KEM 08.0006X Issue 1,
KEMA 05ATEX1168 X Issue 4

Applicant:

Fluidwell B.V.

Equipment:

Indicator Model F0...-...

	Model F0..-P-XI	Model F0..-A-XI Model F0..-U-XI	Model F0..-A-PL-XI	Model F0..-T-XI Model F0..-H-XI
Internal supply Type -PC (connector)	for use with the certified replaceable battery type FW-LIBAT-... or to another certified non rechargeable battery in type of protection intrinsic safety Ex ia IIC/IIIC, with the following maximum values:			
	$U_i = 4 \text{ V}$ $I_i = 50 \text{ mA}$ $P_i = 200 \text{ mW}$ $L_i = 0 \text{ mH}$ $C_i = 0 \text{ }\mu\text{F}$			
Signal input circuit	Pulse input circuit (terminals 1 and 2)	Analog input circuit (terminals 1 and 2)	Loop Powered analog input circuit (terminals 1 and 2)	Temperature input circuit (terminals 1, 2, 3 and 4)
	in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to a certified intrinsically safe circuit, with following maximum values:			
	$U_i = 30 \text{ V}$ $I_i = 150 \text{ mA}$ $P_i = 0.92 \text{ W}$ $L_i = 0 \text{ mH}$ $C_i = 0 \text{ nF}$	$U_i = 30 \text{ V}$ $I_i = 150 \text{ mA}$ $P_i = 0.92 \text{ W}$ $L_i = 0 \text{ mH}$ $C_i = 0 \text{ nF}$	$U_i = 30 \text{ V}$ $I_i = 93 \text{ mA}$ $P_i = 0.92 \text{ W}$ $L_i = 0 \text{ mH}$ $C_i = 0 \text{ nF}$	Not applicable
	in type of protection intrinsic safety Ex ia IIC/IIIC, with the following maximum values:			
	$U_o = 5.4 \text{ V}$ $I_o = 2.4 \text{ mA}$ $P_o = 3.2 \text{ mW}$ $L_o = 1 \text{ H}$ $C_o = 65 \text{ }\mu\text{F}$	Not applicable	Not applicable	$U_o = 5.4 \text{ V}$ $I_o = 62 \text{ mA}$ $P_o = 252 \text{ mW}$ $L_o = 9.2 \text{ mH}$ $C_o = 62 \text{ }\mu\text{F}$
Reference output circuit (terminal 3 and 1 or 2)	in type of protection intrinsic safety Ex ia IIC/IIIC, with the following maximum values:			
	$U_o = 5.4 \text{ V}$ $I_o = 2.1 \text{ mA}$ $P_o = 2.9 \text{ mW}$ $L_o = 1 \text{ H}$ $C_o = 65 \text{ }\mu\text{F}$	Not applicable	Not applicable	Not applicable
From the safety point of view the circuits shall be considered to be connected to earth.				

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Indicator Model F0..-..

	Model F0..-P-XI	Model F0..-A-XI Model F0..-U-XI	Model F0..-A-PL-XI	Model F0..-T-XI Model F0..-H-XI																			
External supply input circuit Type -PD, -PX	(terminals 4 and 5)			(terminals 5 and 6)																			
	in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to a certified intrinsically safe circuit, with following maximum values: <table style="margin-left: auto; margin-right: auto;"> <tr> <td>U_i</td> <td>=</td> <td>30</td> <td>V</td> </tr> <tr> <td>I_i</td> <td>=</td> <td>200</td> <td>mA</td> </tr> <tr> <td>P_i</td> <td>=</td> <td>1.2</td> <td>W</td> </tr> <tr> <td>L_i</td> <td>=</td> <td>0</td> <td>mH</td> </tr> <tr> <td>C_i</td> <td>=</td> <td>0</td> <td>nF</td> </tr> </table>				U_i	=	30	V	I_i	=	200	mA	P_i	=	1.2	W	L_i	=	0	mH	C_i	=	0
U_i	=	30	V																				
I_i	=	200	mA																				
P_i	=	1.2	W																				
L_i	=	0	mH																				
C_i	=	0	nF																				
External supply output circuit Type -PD (terminals 6 and 1, 2, 7 or 8)	in type of protection intrinsic safety Ex ia IIC/IIIC, with the following maximum values:																						
	$U_o = 8.7$ V $I_o = 12$ mA $P_o = 72$ mW $L_o = 240$ mH $C_o = 5.9$ μ F	The maximum output parameters are equal to the parameters of the external supply input circuit (terminals 4 and 5)		Not applicable																			
Pulse output circuit Type -OT (terminals 7 and 8)	in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to a certified intrinsically safe circuit, with following maximum values:																						
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>U_i</td> <td>=</td> <td>30</td> <td>V</td> </tr> <tr> <td>I_i</td> <td>=</td> <td>200</td> <td>mA</td> </tr> <tr> <td>P_i</td> <td>=</td> <td>1.2</td> <td>W</td> </tr> <tr> <td>L_i</td> <td>=</td> <td>0</td> <td>mH</td> </tr> <tr> <td>C_i</td> <td>=</td> <td>0</td> <td>nF</td> </tr> </table>				U_i	=	30	V	I_i	=	200	mA	P_i	=	1.2	W	L_i	=	0	mH	C_i	=	0
U_i	=	30	V																				
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L_i	=	0	mH																				
C_i	=	0	nF																				
Backlight supply input circuit Type -ZB (terminals 9 and 10)	in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to a certified intrinsically safe circuit, with following maximum values:																						
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I_i	=	200	mA																				
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L_i	=	0	mH																				
C_i	=	0	nF																				
Analog output (with HART) Type -AH (terminals 11 and 12)	in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to a certified intrinsically safe circuit, with following maximum values:			Not applicable																			
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>U_i</td> <td>=</td> <td>30</td> <td>V</td> </tr> <tr> <td>I_i</td> <td>=</td> <td>100</td> <td>mA</td> </tr> <tr> <td>P_i</td> <td>=</td> <td>0.75</td> <td>W</td> </tr> <tr> <td>L_i</td> <td>=</td> <td>0</td> <td>mH</td> </tr> <tr> <td>C_i</td> <td>=</td> <td>6.1</td> <td>nF</td> </tr> </table>				U_i	=	30	V	I_i	=	100	mA	P_i	=	0.75	W	L_i	=	0	mH	C_i	=	6.1
U_i	=	30	V																				
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