FUNCTION	TERMINALS	Ui	Ii	Pi	Ci	Li	Uo	Io	Po	Co	Lo
		V	mA	mW	µF	mH	V	mA	mW	µF	mH
STANDARD I/O											
LOOP POWER SUPPLY	PWR0+	29	100	670	0.03	0.3	---	---	---	---	---
	PWR0-										
FREQUECY/PULSE OUTPUT	D0 A	29	100	670	0.03	0.3	---	---	---	---	---
	D0 B										
SLOT 1, RS485 Option board (01-0020)											
POWER SUPPLY	PWR1+	28	100	670	0.03	0.3	---	---	---	---	---
	PWR1-										
RS485 COMMUNICATION	D1 A	4.2	250	250	20	neg	4.12	150	150	---	---
	D1 B										
FREQUECY/PULSE OUTPUT	D2 A	15.5	100	250	0.03	0.02	---	---	---	---	---
	D2 B										
FREQUECY/PULSE OUTPUT	D3 A	15.5	100	250	0.03	0.02	---	---	---	---	---
	D3 B										
SLOT 1, RS485 IO 4..20mA option board (01-0202)											
LOOP POWER SUPPLY /4..20mA	PWR1+	29	100	670	0.03	0.3	---	---	---	---	---
	PWR1-										
RS485 COMMUNICATION	D1 A	4.2	250	250	20	neg	4.12	150	150	---	---
	D1 B										
FREQUECY/PULSE OUTPUT	D2 A	15.5	100	250	0.03	0.02	---	---	---	---	---
	D2 B										
FREQUECY/PULSE OUTPUT	D3 A	15.5	100	250	0.03	0.02	---	---	---	---	---
	D3 B										
SLOT 1, Dual RS485 IO option board (01-0251)											
LOOP POWER SUPPLY /4..20mA	PWR1+	29	100	670	0.03	0.3	---	---	---	---	---
	PWR1-										
RS485 COMMUNICATION - PORT 1	D1 A	4.2	250	250	20	neg	4.12	150	150	---	---
	D1 B										
FREQUECY/PULSE OUTPUT	D2 A	15.5	100	250	0.03	0.02	---	---	---	---	---
	D2 B										
FREQUECY/PULSE OUTPUT	D3 A	15.5	100	250	0.03	0.02	---	---	---	---	---
	D3 B										
RS485 COMMUNICATION - PORT 2	D4 A	4.2	250	250	20	neg	4.12	150	150	---	---
	D4 B										
PRESSURE / TEMPERATURE	PRESS	REFER TO SAFETY INSTRUCTIONS FOR INTERCONNECTION TO APPROVED EQUIPMENT CABLE LENGTH NOT TO EXCEED 2 meter (6.7ft)									
	TEMP										
SLOT 2, P/T option board (01-0022)											
PRESSURE	PRESS1	REFER TO SAFETY INSTRUCTIONS FOR INTERCONNECTION TO APPROVED EQUIPMENT CABLE LENGTH NOT TO EXCEED 2 meter (6.7ft)									
	PRESS2										
	PRESS3										
	PRESS4										
TEMPERATURE	TEMP1										
	TEMP2										
	TEMP3										
	TEMP4										
SLOT 2,4..20mA HART option board (01-0203)											
POWER SUPPLY	LPWR2+	29	100	670	0.03	0.3	---	---	---	---	---
	LPWR2-										

UIM Electronics assembly model number		
UIME-AB-C-DEFGH		
A	x	Number of paths (1 to 4)
B	x	Application type
C	x	Meter size
D - SLOT 1	0	Not installed
	1	RS485 Option board (01-0020)
	2	RS485 IO 4..20mA option board (01-0202)
	3	Dual RS485 IO option board (01-0251)
E - SLOT 2	0	Not installed
	1	P/T option board (01-0022)
	2	4..20mA option board (01-0203)
	3	Dual RS485 IO option board (01-0251)
F - LCD	0	Not installed
	1	Installed
	2	SS316 enclosure with display/keypad
G	1	M20 cable gland entries
	2	1/2" NPT cable gland entries
H	x	options, not affecting explosion safety

LOCATE THE UIM MODEL NUMBER ON THE NAMEPLATE OF THE ENCLOSURE AND REFER TO TABLE FOR SPECIFIC INTRINSIC SAFETY PARAMETERS

Ex ia IIC T4 Ga
-40°C ≤ Tamb ≤ +60°C
IECEx DEK16.0007X

CE 0344
II 1 G Ex ia IIC T4 Ga
-40°C ≤ Tamb ≤ +60°C
DEKRA 16ATEX0014 X

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH: Ra<0.8
TOLERANCES: ACC. TO ISO/DIN 2768-mK

DEBUR AND BREAK SHARP EDGES

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	DATE PRINTED: 06-11-2024		

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WEIGHT:

TITLE:

Control drawing ATEX/IECEx

DWG NO. 01_0198

A3

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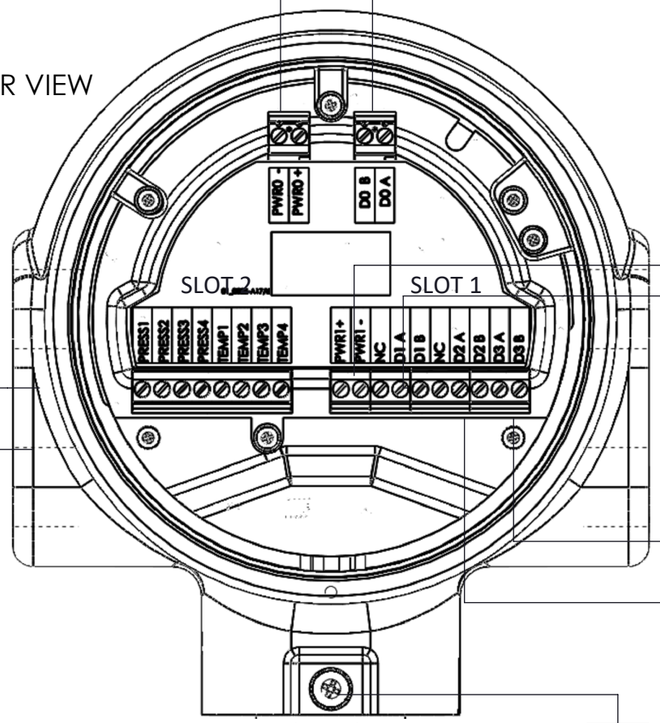
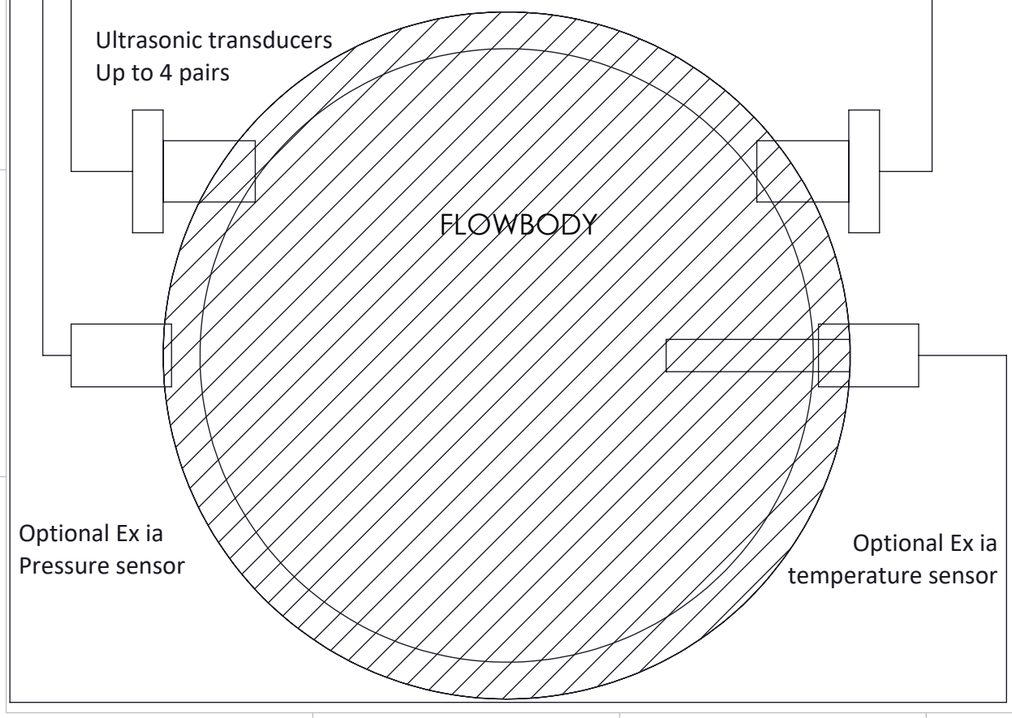
SHEET 1 OF 4

SLOT 1 FITTED WITH RS485 option board (01-0020)
SLOT 2 FITTED WITH PT option board (01-0022)

REAR VIEW





UIM FLOWMETER

HAZARDOUS AREA

NON-HAZARDOUS AREA

ASSOCIATED EQUIPMENT

STANDARD IO

Ui = 29V Ii = 100mA Pi = 670mW Li = 0.3mH Ci = 0.03µF	LOOP SUPPLY	PWR0+	+	Uo/Voc <= 29V Io/Imax <= 100mA Po <= 670mW Lo >= 0.3mH+ L(cable) Co >= 0.03µF + C(cable)
		PWR0- isolated	-	
Ui = 29V Ii = 100mA Pi = 670mW Li = 0.15mH Ci = 0.03µF	FREQ/PULSE	D0 A(+)	+	Uo/Voc <= 29V Io/Imax <= 100mA Po <= 670mW Lo >= 0.15mH+ L(cable) Co >= 0.03µF + C(cable)
		D0 B(-) non-isolated open drain	-	

RS485 Option board (01-0020)

Ui = 28V Ii = 100mA Pi = 670mW Li = 0.3mH Ci = 0.03µF	OPTION SUPPLY	PWR1+	+	Uo/Voc <= 28V Io/Imax <= 100mA Po <= 670mW Lo >= 0.3mH+ L(cable) Co >= 0.03µF + C(cable)
		PWR1- isolated	-	
Uo = 4.12V Io = 150mA Po = 150mW Li = negligible Ci = 20µF Ui = 4.2V Ii = 250mA Pi = 250mW	RS485	D1 A	A(+)	Ui >= 4.12V Ii >= 150mA Pi >= 150mW Lo >= L(cable) Co >= 20µF + C(cable) Uo <= 4.2V Io <= 250mA Po <= 250mW
		D1 B optically isolated	B(-)	
Ui = 15.5V Ii = 100mA Pi = 250mW Li = 0.02mH Ci = 0.03µF	FREQ/PULSE	D2 A(+)	+	Uo/Voc <= 15.5V Io <= 100mA Po <= 250mW Lo >= 0.02mH + L(cable) Ci >= 0.03µF + C(cable)
		D2 B(-) optically isolated open collector	-	
Ui = 15.5V Ii = 100mA Pi = 250mW Li = 0.02mH Ci = 0.03µF	FREQ/PULSE	D3 A(+)	+	Uo/Voc <= 15.5V Io <= 100mA Po <= 250mW Lo >= 0.02mH + L(cable) Ci >= 0.03µF + C(cable)
		D3 B(-) optically isolated open collector	-	

Warning!
EXPLOSION HAZARD
SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY

Only for interconnection with Exi or [Exi] Associated equipment.

Comply with EU directive 2014/34/EU
And EN/IEC 60079-0 EN/IEC60079-11

INSTALL PER IEC 60079-14

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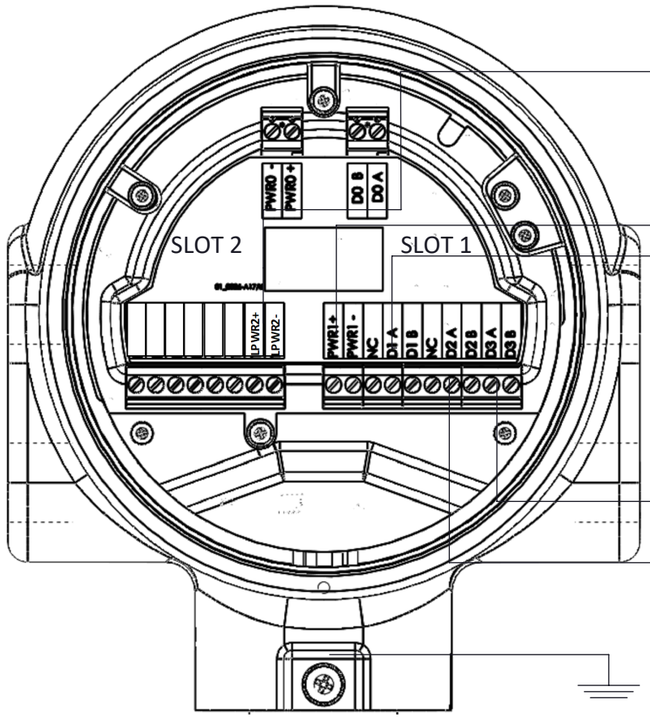
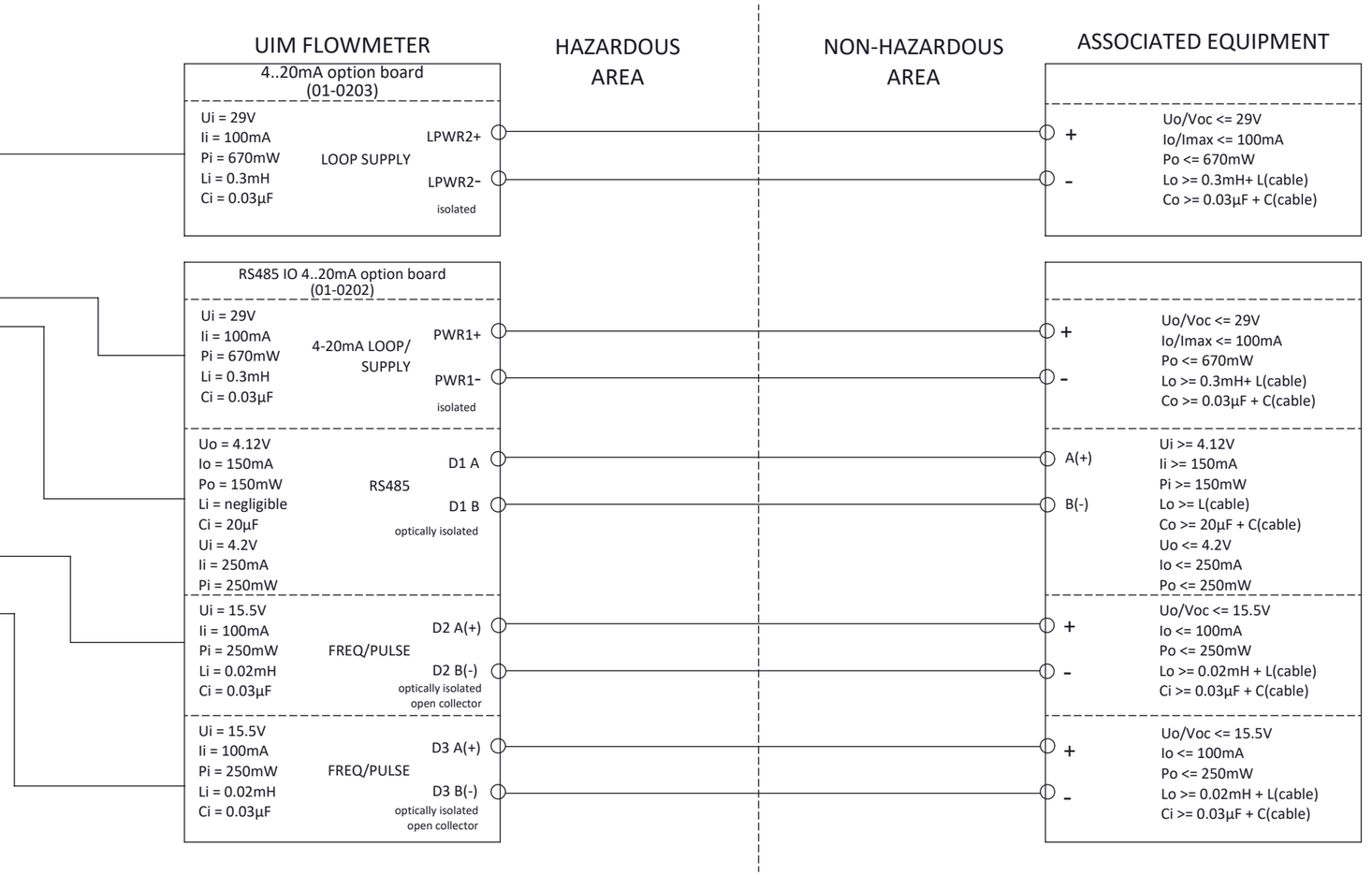
SHEET 2 OF 4

REAR VIEW



SLOT 1 FITTED WITH RS485 4..20mA option board
SLOT 2 FITTED WITH 4..20mA HART option board



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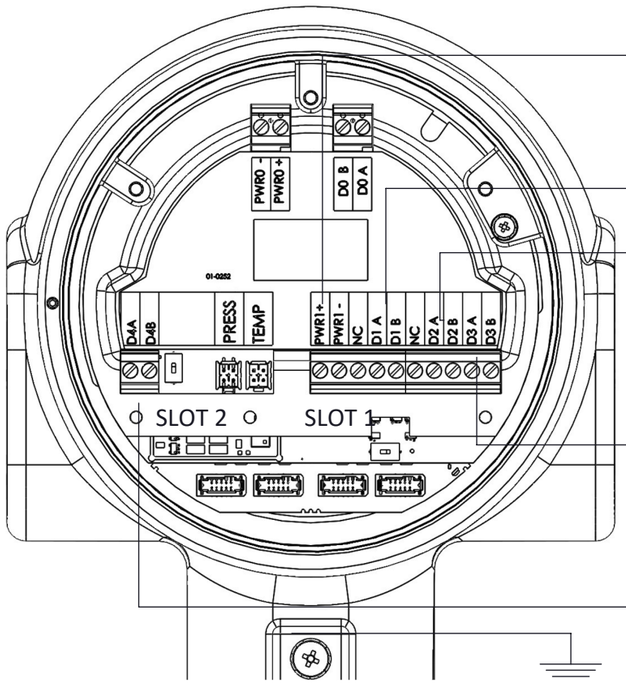
SHEET 3 OF 4

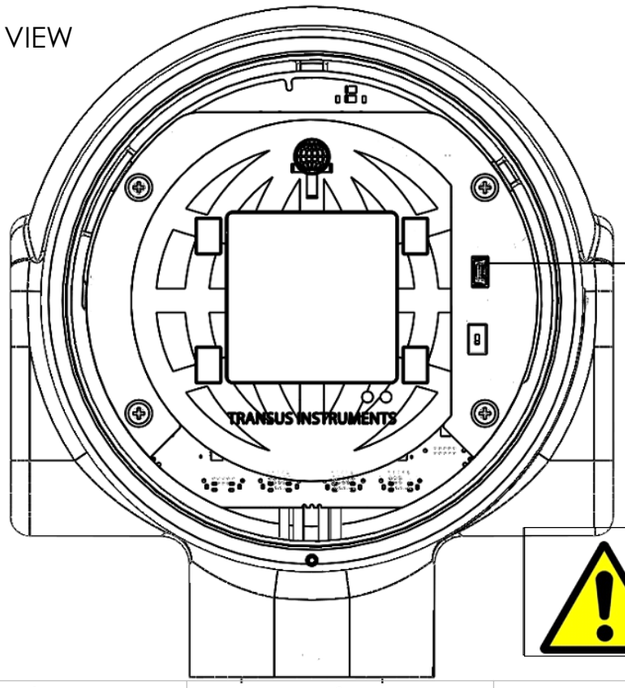
REAR VIEW

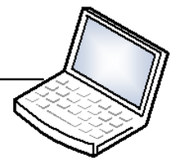


SLOT 1 AND SLOT 2 FITTED WITH Dual RS485 option board

UIM FLOWMETER			HAZARDOUS AREA	NON-HAZARDOUS AREA	ASSOCIATED EQUIPMENT	
Dual RS485 IO option board (01-0251)						
Ui = 29V Ii = 100mA Pi = 670mW Li = 0.3mH Ci = 0.03µF	4-20mA LOOP/ SUPPLY	PWR1+ PWR1- isolated			+ -	Uo/Voc <= 29V Io/Imax <= 100mA Po <= 670mW Lo >= 0.3mH+ L(cable) Co >= 0.03µF + C(cable)
Uo = 4.12V Io = 150mA Po = 150mW Li = negligible Ci = 20µF Ui = 4.2V Ii = 250mA Pi = 250mW	RS485 PORT 1	D1 A D1 B optically isolated			A(+) B(-)	Ui >= 4.12V Ii >= 150mA Pi >= 150mW Lo >= L(cable) Co >= 20µF + C(cable) Uo <= 4.2V Io <= 250mA Po <= 250mW
Ui = 15.5V Ii = 100mA Pi = 250mW Li = 0.02mH Ci = 0.03µF	FREQ/PULSE	D2 A(+) D2 B(-) optically isolated open collector			+ -	Uo/Voc <= 15.5V Io <= 100mA Po <= 250mW Lo >= 0.02mH + L(cable) Ci >= 0.03µF + C(cable)
Ui = 15.5V Ii = 100mA Pi = 250mW Li = 0.02mH Ci = 0.03µF	FREQ/PULSE	D3 A(+) D3 B(-) optically isolated open collector			+ -	Uo/Voc <= 15.5V Io <= 100mA Po <= 250mW Lo >= 0.02mH + L(cable) Ci >= 0.03µF + C(cable)
Uo = 4.12V Io = 150mA Po = 150mW Li = negligible Ci = 20µF Ui = 4.2V Ii = 250mA Pi = 250mW	RS485 PORT 2	D4 A D4 B optically isolated			A(+) B(-)	Ui >= 4.12V Ii >= 150mA Pi >= 150mW Lo >= L(cable) Co >= 20µF + C(cable) Uo <= 4.2V Io <= 250mA Po <= 250mW

FRONT VIEW





NON INTRINSICALLY SAFE
USB SERVICE PORT

Warning!
ONLY CONNECT USB IN SAFE AREA OR ENSURE NO EXPLOSIVE ATMOSPHERE IS PRESENT.
MAXIMUM VOLTAGE RATING Um = 250 VAC

Warning!
EXPLOSION HAZARD
SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY

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