



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Type ICS466xa-bc Weighing Indicator

IS / I, II, III / 1 / ABCDEFG / T4 – 22026630; Entity; Type 4X; IP65

I / 1 / AEx ib IIC/ T4 – 22026630; Entity; Type 4X; IP65

a = a (PDC-SG-EX1), d (digital scale)

b = d (digital scale), p (CL Passive), 0 (empty)

c = C (CL Active), p (CL Passive), 0 (empty)

Entity Parameters:

Power Supply (terminals J1, J2)

Terminal	U_i (V)	I_i (mA)	P_i (W)	C_i (μ F)	L_i (mH)
U1 (J1.4 – J1.3)	8.7	133	1.16	0	0
U2 (J1.2 – J1.3)	12.6	42	0.53	0	0
U3 (J1.1 – J1.3)	7.15	107	0.77	0.22	0
U4 (J2.4 – J2.4/J2.2)	10.5	74	0.78	0.22	0
U5 (J2.3 – J2.4/J2.2)	5.9	240	1.41	0.22	0
U6 (J2.1 – J2.4/J2.2)	12.6	92	1.16	0.44	0

RS232 Interface (terminals J8, J10)

Terminal	U_i (V)	I_i (mA)	P_i (W)	C_i (μ F)	L_i (mH)
Input Line (J8.2 – J8.1)	± 10	-	-	0	0
Input Line (J10.2 – J10.1)	± 10	-	-	0	0
	U_o (V)	I_o (mA)	P_o (W)	C_o (μ F)	L_o (mH)
Output Line (J8.3 – J8.1)	± 5.36	± 18.1	0.0242	0.1	0.1
Output Line (J10.3 – J10.1)	± 5.36	± 18.1	0.0242	0.1	0.1

Option Board CL Active (Terminal J2)

<i>Terminal</i>	<i>U_o (V)</i>	<i>I_o (mA)</i>	<i>P_o (W)</i>	<i>C_o (μF)</i>	<i>L_o (mH)</i>
J2	5.36	74	0.397	0.6	0.4

Option Board CL Passive (Terminal J4)

<i>Terminal</i>	<i>U_i (V)</i>	<i>I_i (mA)</i>	<i>P_i (W)</i>	<i>C_i (μF)</i>	<i>L_i (mH)</i>
J4	10	300	0.5	0.11	0

Option Board Digital Scale (Terminals J2, J3)

<i>Terminal</i>	<i>U_o (V)</i>	<i>I_o (mA)</i>	<i>P_o (W)</i>	<i>C_o (μF)</i>	<i>L_o (mH)</i>
U1 (J2.5 – J2.3/4, J3.6 – J3.4/5)	8.7	133	1.16	*	*
U2 (J2.6 – J2.3/4, J3.3 – J3.4/5)	12.6	42	0.53	*	*

* - Dependent on power supply connected to Backplane terminals J1.4-J1.3 and J1.2 – J1.3 respectively

Circuits CLTX (Terminals J2, J3)

<i>Terminal</i>	<i>U_o (V)</i>	<i>I_o (mA)</i>	<i>P_o (W)</i>	<i>C_o (μF)</i>	<i>L_o (mH)</i>
J2.2 – J2.3/4, J3.2 – J3.4/5	5.36	30	0.04	0.1	0.1

Circuits CLRX (Terminals J2, J3)

<i>Terminal</i>	<i>U_o (V)</i>	<i>I_o (mA)</i>	<i>P_o (W)</i>	<i>C_o (μF)</i>	<i>L_o (mH)</i>
J2.1 – J2.3/4, J3.1 – J3.4/5	5.36	30	0.04	0.1	0.1

Option Board PDC-SG-Ex1 (Terminal J201)

<i>Terminal</i>	<i>U_o (V)</i>	<i>I_o (mA)</i>	<i>P_o (W)</i>	<i>C_o (μF)</i>	<i>L_o (mH)</i>
J201	5.36	107	0.574	0.2	0.3

Equipment Ratings:

Intrinsically Safe for Class I, II, III Division 1, Groups A, B, C, D, E, F, and G, T4 hazardous (Classified) locations, Intrinsically Safe for Class I, Zone 1, Group IIC, T4 hazardous (Classified) locations in accordance with Control Drawing 22026630; Type 4X, IP65

FM Approved for:

Mettler Toledo (ChangZhou) Measurement Technology Ltd
Changzhou, Jiangsu, P.R. of China



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	2011
Class 3610	2010
Class 3810	2005
ANSI/NEMA 250	1991
ANSI/IEC 60529	2004
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2012

Original Project ID: 3049022

Approval Granted: September 27, 2013

Subsequent Revision Reports / Date Approval Amended

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FM Approvals LLC

J.E. Marquedant
Group Manager, Electrical

27 September 2013

Date