

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

Type ICS466xa-bc Weighing Indicator

IS / I, II, III / 1 / ABCDEFG / T4 – 22026630; Entity; 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)

<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>
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)

<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>
Input Line (J8.2 – J8.1)	±10	-	-	0	0
Input Line (J10.2 – J10.1)	±10	-	-	0	0
	<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>
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 locations in accordance with Control Drawing 22026630; IP65

FM Approved for:

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



Member of the FM Global Group

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

CAN/CSA C22.2 No. 142	2009
CAN/CSA C22.2 No. 157	2012
CAN/CSA C22.2 No. 1010.1	2004
CAN/CSA C22.2 No. 60529	2010


Original Project ID: 3049022

Approval Granted: September 27, 2013

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC



 J.E. Marquedant
 Group Manager, Electrical

September 27, 2013

 Date