



Certificate of Compliance

Certificate: 1801596 (LR 36637)

Master Contract: 152423

Project: 2496445

Date Issued: March 1, 2012

Issued to: Measurement Technology Limited

Great Marlings
Butterfield
Luton, Bedfordshire LU2 8DL
United Kingdom
Attention: Peter Rigling

The products listed below are eligible to bear the CSA Mark shown



Nicholas Cameron

Issued by: Nicholas Cameron

PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

Class I, Division 2, Groups A,B,C,D; Class I, Zone 2, Group IIC; Ex nA [ia] IIC; Ex nC [ia] IIC

4500 and 5500 Series Intrinsically Safe Isolators; Nominal input 20-35Vdc, 2W max; Temperature Code T4; Maximum Ambient +60°C; for use in Class I, Division 2, Groups A,B,C,D, Class I, Zone 2, Group IIC with I.S. outputs for Class I, Division 1, Groups A,B,C,D; Class I, Zone 0/1/2, Group IIC; Entity parameters are as follows:

Model; Terminals; Voc; Isc; Pmax; Ca (AB,C,D); La (AB,C,D)

4504; 1-2; 10.5V; 14mA; 37mW; 2.41uF, 16.8uF, 75uF; 180mH, 725mH, 1.45H

4510, 5510; 1-2, 2-3, 4-5, 5-6; 10.5V; 14mA; 37mW; 2.41uF, 16.8uF, 75uF ; 180mH, 725mH, 1.45H

4511, 5511; 1-2; 10.5V; 14mA; 37mW; 2.41uF, 16.8uF, 75uF; 180mH, 725mH, 1.45H

4513, 5513; 1-2, 4-5; 10.5V; 14mA; 37mW; 2.41uF, 16.8uF, 75uF; 180mH, 725mH, 1.45H

4514, 5514; 1-2; 10.5V; 14mA; 37mW; 2.41uF, 16.8uF, 75uF; 180mH, 725mH, 1.45H

4516, 1-2, 4-5; 10.5V; 14mA; 37mW; 2.41uF, 16.8uF, 75uF; 180mH, 725mH, 1.45H



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4516C, 5516C; 1-2, 4-5; 10.5V; 14mA; 37mW; 2.41uF, 16.8uF, 75uF; 180mH, 725mH, 1.45H
4517, 5517; 1-2, 4-5; 10.5V; 14mA; 37mW; 2.41uF, 16.8uF, 75uF; 180mH, 725mH, 1.45H
4521, 5521, 5525; 1-2; 25V; 147mA; 919mW; 0.11uF, 0.84uF, 2.97uF; 1.6mH, 6.5mH, 13mH
5522; 1-2; 25V; 162mA; 1013mW; 0.11uF, 0.84uF, 2.97uF; 1.3mH, 5.4mH, 10mH
4521L, 5521L; 1-2; 25V; 147mA; 919mW; 0.11uF, 0.84uF, 2.97uF; 1.6mH, 6.5mH, 13mH
4523, 5523; 1-2; 25V; 147mA; 919mW; 0.11uF, 0.84uF, 2.97uF; 1.6mH, 6.5mH, 13mH
4523R; 1-2; 25V; 147mA; 919mW; 0.11uF, 0.84uF, 2.97uF; 1.6mH, 6.5mH, 13mH
4523L; 1-2; 25V; 147mA; 919mW; 0.11uF, 0.84uF, 2.97uF; 1.6mH, 6.5mH, 13mH
4523V, 5523V; 1-2; 25V; 147mA; 919mW; 0.11uF, 0.84uF, 2.97uF; 1.6mH, 6.5mH, 13mH
4524, 5524; 1-2; 25V; 147mA; 919mW; 0.11uF, 0.84uF, 2.97uF; 1.6mH, 6.5mH, 13mH
4524S; 1-2; 25V; 147mA; 919mW; 0.11uF, 0.84uF, 2.97uF; 1.6mH, 6.5mH, 13mH
4525; 1-2; 25V; 83.3mA; 521mW; 0.11uF, 0.84uF, 2.97uF; 5mH, 20mH, 40mH
4541, 5541; 2-1/3; 28V; 93mA; 651mW; 0.083uF, 0.65uF, 2.15uF; 4mH, 16mH, 32mH
4541B; 2-1/3; 28V; 93mA; 651mW; 0.083uF, 0.65uF, 2.15uF; 4mH, 16mH, 32mH
4544, 5544; 2-1/3, 5-4/6; 28V; 93mA; 651mW; 0.083uF, 0.65uF, 2.15uF; 4mH, 16mH, 32mH
4544B; 2-1/3, 5-4/6; 28V; 93mA; 651mW; 0.083uF, 0.65uF, 2.15uF; 4mH, 16mH, 32mH
4546, 5546; 1-2; 28V; 93mA; 651mW; 0.083uF, 0.65uF, 2.15uF; 4mH, 16mH, 32mH
4546C; 1-2; 28V; 93mA; 651mW; 0.083uF, 0.65uF, 2.15uF; 4mH, 16mH, 32mH
4549, 5549; 1-2, 4-5; 28V; 93mA; 651mW; 0.083uF, 0.65uF, 2.15uF; 4mH, 16mH, 32mH
4549C; 1-2, 4-5; 28V; 93mA; 651mW; 0.083uF, 0.65uF, 2.15uF; 4mH, 16mH, 32mH
4575, 5575; 1,3,4,5; 7.2V; 8mA; 14.4mW; 13.5uF, 240uF, 1000uF; 555mH, 2.22H, 4.44H
4575, 5575; Config; Voc=7.2V; Isc=14.5mA; Pmax=26mW; 13.5uF, 240uF, 1000uF; 169mH, 676mH, 1.35H
4575, 5575; Config; Vmax=11.2V; Imax=12mA; Pmax=280mW; Ci = 0uF; Li = 0uH

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 0-2010 - General Requirements - Canadian Electrical Code Part II



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CSA Standard C22.2 No.142-M1987 – Process Control Equipment

CSA Standard C22.2 No. 157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA Standard C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA 60079-0:07 - Electrical apparatus for explosive gas atmospheres – Part 0: General requirements

CAN/CSA E60079-11:02 - Electrical apparatus for explosive gas atmospheres – Part 11: Intrinsic safety "i"

CAN/CSA E60079-15:02 - Electrical apparatus for explosive gas atmospheres - Part 15: Type of protection "n"



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
2496445	March 1, 2012	Update of report 1801596 to include alternate relay TYCO V23092-B1009-A201.
2438111	August 25, 2011	Update report 1801596 to include alternate zener and rectifier diodes for critical components based on the acceptance of Baseefa test reports.
2377739	December 15, 2010	Update to report 1801596 to include four new models (4521L, 5521L, 4523V, 5523V).
2352916	September 23, 2010	Update of report 1801596 to add new MTL4504 version to 4500 Series
2290692	April 8, 2010	Update of report 1801596 to make changes to the Markings section.
1996785	March 10, 2008	Revision of report 1801596 to include modified designs.
1801596	December 5, 2006	4500 / 5500 Series Intrinsically Safe barriers for use in ordinary or Div/Zone 2 locations with outputs for Div 1 or Zone 0/1 locations.