



Certificate of Compliance

Certificate: 1182963

Master Contract: 150135

Project: 80065793

Date Issued: 2021-01-21

Issued To: WIKA Instruments Ltd.
3103 Parsons Rd
Edmonton, Alberta, T6N 1C8
Canada

Attention: Mr. Robert Woo

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: *Andy Jiang*
Andy Jiang

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

CLASS - C225882 - PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US Standards

Divisions XP: Class I, Division 1, Groups B, C & D; Class II, Groups E, F & G; Class III; Enclosure Type 4 or 4X;

Temperature Measurement Products (Single or Dual Probe)

- TC10 Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20 mA.
- TR10 Resistance Temperature Detector Assemblies, rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- TC50 Thermocouple Detector Assemblies, rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- TR50 Resistance Temperature Detector Assemblies, rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- TC59 Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20 mA.
- TC12-B, TC12-M Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20 mA.
- TR12-B, TR12-M Resistance Temperature Detector Assemblies, rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.



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- Series 1000 Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20 mA.
- Series 4000 Resistance Temperature Detector Assemblies, rated output 2 V max, 5 mA or 30 Vmax, 4-20 mA.
- Series 5000 Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20 mA.
- Series 6000 Resistance Temperature Detector Assemblies, rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- Series 7000 Resistance Temperature Detector Assemblies, rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- Series 8000 Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20 mA.

- YTE Resistance Temperature Detector or Thermocouple Detector Assemblies, rated output 30 Vmax, 4-20 mA.
- YTP Resistance Temperature Detector or Thermocouple Detector Assemblies, rated output 30 Vmax, 4-20 mA.

Probe Sub-Assemblies for Series 1000, 4000, 5000, 6000, 7000, 8000 products

- Styles AA, AB, AC, AD, AE, AF, AG, AJ, AK, AL, AN, AO, AP, AR.

Probe Sub-Assemblies for Series YTE, WTE, YTP, WTP products

- Styles AE, AF, AG, AJ, AK, AL and AR

CAN Zones FP: Ex d IIC Gb T6/T5/T4;

USA Zones FP: Class I, Zone 1, AEx d IIC Gb T6/T5/T4:

Temperature Measurement Products (Single or Dual Probe)

- TC10 Thermocouple Detector Assemblies; rated output 80 mV or 30 Vmax, 4-20 mA.
- TR10 Resistance Temperature Detector Assemblies; rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- TC50 Resistance Temperature Detector Assemblies; rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- TR50 Resistance Temperature Detector Assemblies; rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- TC59 Thermocouple Detector Assemblies; rated output 80 mV or 30 Vmax, 4-20 mA.
- TC12-B, TC12-M Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20 mA.
- TR12-B, TR12-M Resistance Temperature Detector Assemblies, rated output 2 V, 5 mA or 30 Vmax, 4-20 mA

- Series 1000 Thermocouple Detector Assemblies; rated output 80 mV or 30 Vmax, 4-20 mA.
- Series 4000 Resistance Temperature Detector Assemblies; rated output 2 V max, 5 mA or 30 Vmax, 4-20 mA.
- Series 5000 Thermocouple Detector Assemblies; rated output 80 mV or 30 Vmax, 4-20 mA.
- Series 6000 Resistance Temperature Detector Assemblies; rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- Series 7000 Resistance Temperature Detector Assemblies; rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.
- Series 8000 Thermocouple Detector Assemblies; rated output 80 mV or 30 Vmax, 4-20 mA.

Probe Sub-Assemblies for Series 1000, 4000, 5000, 6000, 7000, 8000 products

- Styles AA, AB, AC, AD, AE, AF, AG, AJ, AK, AL, AN, AO, AR.



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CAN Zones FP: Ex d IIB+H₂ Gb T6/T5/T4;
USA Zones FP: Class I, Zone 1, AEx d IIB+H₂ Gb T6/T5/T4:

Probe Sub-Assemblies for Series 1000, 4000, 5000, 6000, 7000, 8000 products

- Styles AP.

Divisions NI: Class I, Division 2, Groups B, C & D; Enclosure Type 4 or 4X:

Temperature Measurement Products (Single or Dual Probe)

- TC15 Thermocouple Detector Assemblies, rated output 80 mV or 30 V_{max}, 4-20mA.
- TR15 Resistance Temperature Detector Assemblies, rated output 2V, 5 mA or 30 V_{max}, 4-20mA
- TC50 Thermocouple Detector Assemblies, rated 80 mV output or 30 V_{max}, 4-20mA.
- TR50 Resistance Temperature Detector Assemblies, rated output 2V, 5 mA or 30 V_{max}, 4-20mA
- TC59 Thermocouple Detector Assemblies, rated output 80 mV or 30 V_{max}, 4-20mA.

- Series 1000 Thermocouple Detector Assemblies, rated output 80 mV or 30 V_{max}, 4-20 mA
- Series 4000 Resistance Temperature Detector Assemblies, rated output 2 V max, 5 mA or 30 V_{max}, 4-20 mA.
- Series 5000 Thermocouple Detector Assemblies, rated output 80 mV or 30 V_{max}, 4-20mA
- Series 6000 Resistance Temperature Detector Assemblies, rated output 2V, 5 mA or 30 V_{max}, 4-20mA
- Series 7000 Resistance Temperature Detector Assemblies, rated output 2V, 5 mA or 30 V_{max}, 4-20mA
- Series 8000 Thermocouple Detector Assemblies, rated output 80 mV or 30 V_{max}, 4-20mA

Probe Sub-Assemblies all Series Class I Division 2 products

- Styles AI, AM

Divisions XP: Class I, Division 1 Groups B, C and D; T3C:

Probe Assembly

- Model: Probe Assembly ATS-8362; rated 24VDC, 100mA

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Divisions XP: Class I, Division 1, Groups B, C and D; Class II, Groups E, F and G; Class III; Enclosure Type 4, or 4X:

Temperature Measurement Products (Single or Dual Probe, with Rosemount 3144P or 644 Probe Head)

- TC10 Thermocouple Detector Assemblies, rated output 80 mV or 30 V_{max}, 4-20 mA.
- TR10 Resistance Temperature Detector Assemblies, rated output 2 V, 5 mA or 30 V_{max}, 4-20 mA

Probe Sub-Assemblies for Series TC10 and TR10 products

- Styles AA, AB, AC, AD, AE, AF, AG, AJ, AK, AL, AN, AO, AP, AR.



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Temperature Measurement Products (Single or Dual Probe, with Rosemount 3144P Probe Head)

- TC12 Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20 mA.
- TR12 Resistance Temperature Detector Assemblies, rated output 2 V, 5 mA or 30 Vmax, 4-20 mA.

Division NI: Class I, Division 2, Groups B, C and D; Enclosure Type 4 or 4X:

Temperature Measurement Products (Single or Dual Probe, with Rosemount 3144P or 644 Probe Head)

- TR15 Resistance Temperature Detector Assemblies, rated output 2V, 5 mA or 30 Vmax, 4-20mA.
- TC15 Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20mA.
- TC50 Thermocouple Detector Assemblies, rated output 80 mV or 30 Vmax, 4-20mA.
- TR50 Resistance Temperature Detector Assemblies, rated output 2V, 5 mA or 30 Vmax, 4-20 mA.

Probe Sub-Assemblies Series Class I Division 2 products:

- Styles AI, AM

Notes (All Equipment):

1. Styles AA, AB, AC, AD, AE, AF, AK, AL, and AR Probe Subassemblies must be supplied with either a Thermowell or Testwell.
2. Probe Heads may be provided with an optional internal transmitter modules (rated V supply = 30V, I out = 4-20 mA) specified in this report.
3. Probe Heads and Probe subassemblies where all parts with constructed with the epoxy coated aluminium alloy or stainless steel are rated Enclosure Type 4X. Otherwise Type 4 is applicable.
4. When Probe assemblies are provided without a probe head, the installation is subject to final acceptance in the end use by the local jurisdiction having authority.
5. Alpha-numeric suffixes may be added to denote variations in configurations.
6. 1000/4000/7000/8000 probe heads support a single Probe. 5000/6000 probe heads can support two probes.

Notes (Zone Equipment):

1. Care must be taken to ensure that the process temperature does not cause the device to operate outside of the ambient rating for the corresponding T-Code. T-Code are rated T6 (-50°C to +60°C), T5 (-50°C to +75°C) and T4 (-50°C to +85°C).

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 0-10	- General Requirements - Canadian Electrical Code Part II
CSA Standard C22.2 No. 25-M1966	- Enclosures for Use in Class II Groups E, F and G Hazardous Locations
CSA Standard C22.2 No. 30-M1986 (R2012)	- Explosion-proof Enclosures for Use in Class I Hazardous Locations
CSA Standard C22.2 No. 94-M1991	- Special Purpose Enclosures
CSA Standard C22.2 No. 142-M1987	- Process Control Equipment



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CSA Standard C22.2 No. 213-M1987	- Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CSA Standard 60079-0: 2011	- Explosive atmospheres - Part 0 Equipment - General requirements
CSA Standard 60079-1:2011	- Explosive atmospheres - Part 1 Equipment protection by flameproof enclosures “d”
UL 50, Eleventh Edition	- Enclosures for Electrical Equipment
UL 508, Seventeenth Edition	- Industrial Control Equipment
UL 1203, Fifth Edition	- Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
UL 60079-0, 6th Edition (Jul 2013)	- Explosive atmospheres - Part 0 Equipment - General requirements
UL 60079-1, 6th Edition (Apr 2009)	- Explosive atmospheres - Part 1 Equipment Protection by Flameproof Enclosures “d”
FM 3600-1998	- Approval Standard for Electric Equipment for use in Hazardous (Classified) Locations, General Requirements
FM 3810-2005	- Approval Standard for Electrical Equipment for Measurement, Control and Laboratory Use
FM 3615-2006	- Approval Standard for Explosion proof Electrical Equipment, General Requirements
FM 3611-1999	- Approval Standard for Non-Incendive Electrical Equipment for Use in Class I and II, Division 2, and Class III, Divisions 1 and 2, Hazardous (Classified) Locations
ANSI/ISA-12.12.01-2013	- Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations

MARKINGS

Please refer MARKINGS section of Descriptive Report and Test Results for details.