

TYPE EXAMINATION CERTIFICATE



- [2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**
- [3] Type Examination Certificate Number: **DEMKO 12 ATEX 1202658X Rev. 25**
- [4] Product: **Process Control and Measurement Equipment, Compact RIO Modules and Chassis Types cRIO,
cDAQ and NI Series**
- [5] Manufacturer: **National Instruments Corporation**
- [6] Address: **11500 N. Mopac Expressway, Austin, TX 78759 USA**
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
- The examination and test results are recorded in confidential report no. **4788973363.2.1**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012+A11:2013** **EN 60079-15:2010**
- except in respect of those requirements listed at item 18 of the Schedule.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.
- [12] The marking of the product shall include the following:

 **II 3 G Ex nA IIC T4 Gc**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2012-10-19

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Certification Body

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Schedule

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[15] Description of Product:

Models NI 9381 with DSUB, NI 9220, NI 9220 with DSUB, NI 9242, NI 9244, NI 9238, cRIO-9074XT, cDAQ-9138, cDAQ-9139, NI 9154, NI 9155, NI cDAQ-9181, NI cDAQ-9184, NI cDAQ-9188, cDAQ-9188XT, cRIO-9068, cRIO-9066, cRIO-9067, cRIO-9149, NI 9212, NI TB 9212, NI 9218 with DSUB, cDAQ-9132, cDAQ-9134, cRIO-9030, cRIO-9031, cRIO-9033, cRIO-9034, NI 9860, NI 9222 with BNC, NI 9223 with BNC, NI 9503, NI-XNET CAN HS/FD, NI-XNET CAN HS, NI-XNET LIN, NI-XNET CAN LS, NI-XNET CAN SW, NI-XNET CAN FD+PN, NI 9260 with BNC, NI 9260 miniXLR, cRIO-9035, cRIO-9036, cRIO-9038, cRIO-9039, cDAQ-9133, cDAQ-9135, NI 9997, NI 9218, NI 9344, NI 9209 w/ DSUB, NI 9216, NI 9226, NI 9230, cRIO-9063, cRIO-9064, cRIO-9065, NI 9147, NI 9361, NI 9216 with DSUB, NI 9226 with DSUB, CDAQ-9136, CDAQ-9137, NI 9970, NI 9251 with mini XLR, cRIO-9032, cRIO-9037, NI 9230 with BNC, and NI 9232 with BNC, cDAQ-9171, TRC-8542, TRC-8543, TRC-8546, NI 9207, NI 9208, NI 9209, 9210 with mini TC, NI 9775, NI 9266, NI 9250 w/BNC, NI 9145, NI 9224, NI 9228, cDAQ-9191, NI 9266 w/DSUB, cDAQ-9185, cDAQ-9189, NI 9202, cRIO-9045, cRIO-9047, cRIO-9048, cRIO-9049, NI 9350, and NI 9351, NI 9262 with DSUB, cRIO-9040, cRIO-9042, cRIO-9043, NI 9202 with DSUB, NI 9210, cRIO-9041, cRIO-9046, cRIO-9053, cRIO-9054, cRIO-9055, cRIO-9056, cRIO-9057, cRIO-9058, NI 9253, NI 9252, NI 9252 DSUB and NI 9805.

The cRIO and cDAQ series models may be referenced as XXXX or NI XXXX or cRIO-XXXX or cDAQ-XXXX or NI cRIO-XXXX, where XXXX represents the model number.

The models with DSUB may be referenced as "w/ DSUB", or "with DSUB".
The models with BNC may be referenced as "w/ BNC" or "with BNC".

The units comprise a measurement system for industrial process applications. The system consists of a maximum of 14 slot active chassis. Models NI 9381 with DSUB are 20-channel 0-5V MIO modules. Models NI 9220 and NI 9220 with DSUB are 16 channel analog input modules. Model cRIO-9074XT is an 8-slot integrated chassis and controller. Models NI 9154 and NI 9155 are 8-slot integrated chassis and controllers with field programmable gate array (FPGA). Models cDAQ-9138 and cDAQ-9139 are integrated chassis and controllers. Model cDAQ-9188XT is an eight slot Ethernet backplane and model cRIO-9068 is an eight-slot chassis with integrated controller.

Model NI 9260 with BNC and NI 9260 miniXLR are 2 channel analog voltage output modules. Models cRIO-9035, cRIO-9036, cRIO-9038 and cRIO-9039 are 8-slot integrated chassis and controller. Models cDAQ-9133 and cDAQ-99135 are 8-slot standalone chassis. Model NI 9997 is a 2-channel bus bar module and model NI 9218 is a 2 channel IO module. Model NI 9344 is a switch LED module

Models cRIO-9063, cRIO-9064, cRIO-9065 and NI 9147 are 4-slot chassis with integrated controller. Model NI 9361 is an 8-Channel Differential Counter Input Module with 30V input max.

Model NI 9770 is an RF module with a 50Ω RF input.

Model NI 9251 with mini XLR is a 2-channel, 24-bit differential analog input module.

cRIO-9032 and cRIO-9037 are performance controller that has four slots and eight slots respectively for C Series I/O modules to provide a high-performance control and monitoring system capable of surviving the harshest environments. The controller features a dual power supply and a variety of connectivity options including two Gigabit Ethernet, two USB Hi-Speed host, one USB device, and two serial ports.

The NI 9230 and NI 9230 with BNC are 3-channel C Series dynamic signal acquisition module for making industrial measurements from integrated electronic piezoelectric (IEPE) and non-IEPE sensors with CompactDAQ or CompactRIO systems.

The NI 9232 with BNC is a 3-channel C Series dynamic signal acquisition module for making industrial measurements from integrated electronic piezoelectric (IEPE) and non-IEPE sensors with CompactDAQ or CompactRIO systems.

The NI 9212 is a channel-to-channel isolated thermocouple input module for NI CompactDAQ and NI CompactRIO chassis and controllers. The NI 9212 channel-to-channel isolation protects channels from continuous voltages up to 250 Vrms and transient (withstand) voltages up to 1500 Vrms. The NI 9212, with the NI TB-9212 provides accuracies similar to the NI 9214, eliminating the need to choose between channel-to-channel isolation and accuracy.

Models TRC-8542 is a communication 1-port transceiver cable, 5Vdc, 60Vdc CAT O Channel to Earth isolation, (5000m Altitude); and is similar to NI-XNET CAN HS/FD., TRC-8543 is a communication 1-port PXI software-selectable/FD cable, 5Vdc, 60Vdc CAT O Channel to Earth isolation, (5000m Altitude); and is similar NI-XNET CAN HS/FD., and TRC-8546 is a communication 1-port transceiver cable LIN, 5Vdc, 60Vdc CAT O Channel to Earth isolation, (5000m Altitude); and is similar to NI-XNET LIN. are an interface for connecting to and communicating with I2C and SPI devices.

Model cDAQ-9171 is a USB based cDAQ carrier. Model cDAQ-9171 is a bus-powered, 1-slot NI CompactDAQ USB chassis designed for small, portable sensor measurement systems. Combine the cDAQ-9171 and one of the over 50 NI C Series measurement-specific modules to create an analog output, digital I/O, or counter/timer measurement system.

Model NI 9207 combination voltage and current input C Series module has eight channels of ±21.5 mA input and eight channels of ±10 V input with built-in 50/60 Hz rejection for noise rejection, with 250V CAT II Channel to Earth Isolation up to 5000 m.

Model NI 9208 is a C Series Current Input Module has 16 channels of ±21 mA input with built-in 50/60 Hz rejection for noise rejection, with 250V CAT II Channel to Earth Isolation up to 4000 m.

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Model NI 9209 and NI 9209 w/ DSUB are voltage input C Series modules that have 16 differential channels of ± 10 V that can be configured as 32 single-ended channels of ± 10 V input with built-in 50/60 Hz rejection for noise rejection, with 250V CAT II Channel to Earth Isolation up to 5000 m for the NI 9209 and 60 VDC CAT I Channel to Earth Isolation up to 5000 m for the NI 9209 w/ DSUB.

Model NI 9210 with Mini TC is a 4 Channel C Series Temperature Input Model for use with CompactDAQ and CompactRIO chassis includes a 24-bit delta-sigma analog-to-digital converter, anti-aliasing filters, open-thermocouple detection, and cold-junction compensation for high-accuracy thermocouple measurements, with 60 VDC CAT I Channel to Earth Isolation up to 5000 m.

Model NI 9775 is a 4 channel, 20 MS/s, 14 Bit Digitizer C Series Module.

Model 9266 is an 8 channel analog output module.

Model 9145 is an 8 slot Ethernet expansion chassis.

Model 9250 with BNC is 2 channel AI module, 24 bit.

Model 9224 is 8 channel AI module.

Model 9228 is 8 channel AI module, 24 bit.

Model cDAQ-9188 is an eight slot Ethernet backplane.

Model cDAQ-9184 is a four slot Ethernet backplane.

Model cDAQ-9181 is an Ethernet carrier that accepts one measurement module.

Model cDAQ-9191 is a wireless carrier that accepts one measurement module.

9425 – 32 channel DI module, sinking inputs.

9476 – 32 channel DO module, sourcing outputs.

9266 with DSUB – 8 channel AO module.

cDAQ-9185 – Four slot Ethernet Chassis.

cDAQ-9189 – Eight slot Ethernet Chassis.

9202 – 16 channel AI module.

9045 – Embedded CompactRIO Controller with 1.3 GHz dual core Real-Time Processor and Reconfigurable FPGA.

9046 – Embedded CompactRIO Controller with 1.3 GHz dual core Real-Time Processor and Reconfigurable FPGA.

9047 – Embedded CompactRIO Controller with 1.6 GHz quad core Real-Time Processor and Reconfigurable FPGA.

9048 – Embedded CompactRIO Controller with 1.3 GHz dual core Real-Time Processor and Reconfigurable FPGA

9049 – Embedded CompactRIO Controller with 1.6 GHz quad core Real-Time Processor and Reconfigurable FPGA.

9350 – 8-Ch Digital Input/Output, SIL2 Module.

9351 – 4-Ch Digital Input/Output, 4-Ch AI, SIL2 Module.

Accessory: NI TB-9212 with mini TC.

The NI TB-9212 with mini TC is the same as NI TB-9212 except with mini thermocouple connectors and both must be used with the module NI 9212.

9262 with DSUB – 6 channel AO module.

9351 – 4-Ch Digital Input/Output, 4-Ch AI, SIL2 Module.

9202 with DSUB – 16 channel AI module.

9040 – Embedded CompactRIO Controller with Reconfigurable FPGA.

9041 – Embedded CompactRIO Controller with Reconfigurable FPGA.

9042, 9043 – Embedded CompactRIO Controller with Reconfigurable FPGA.

NI 9210 is a 4 Channel C Series Temperature Input Model for use with CompactDAQ and CompactRIO chassis includes a 24-bit delta-sigma analog-to-digital converter, anti-aliasing filters, open-thermocouple detection, and cold-junction compensation for high-accuracy thermocouple measurements, ± 60 V, with 250 Vrms CAT II Ch-to-Earth.

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Model NI 9231 with 10-32 coaxial jack is 8 channel AI modules.

Model NI 9803, solid state drive expansion module.

Model cRIO-9053 is a 1.33 GHz Dual-Core CPU, 1 GB DRAM, 2 GB Storage, Artix-7 50T FPGA, 4-Slot CompactRIO Controller.

Model cRIO-9054 is a 1.33 GHz Dual-Core CPU, 2 GB DRAM, 4 GB Storage, Artix-7 100T FPGA, 4-Slot CompactRIO Controller.

Model cRIO-9055 is a 1.33 GHz Dual-Core CPU, 2 GB DRAM, 4 GB Storage, Artix-7 100T FPGA, Extended Temperature, 4-Slot CompactRIO Controller.

Model cRIO-9056 1.33 GHz Dual-Core CPU, 1 GB DRAM, 2 GB Storage, Artix-7 75T FPGA, 8-Slot CompactRIO Controller.

Model cRIO-9057 1.33 GHz Dual-Core CPU, 2 GB DRAM, 4 GB Storage, Artix-7 100T FPGA, 8-Slot CompactRIO Controller.

Model cRIO-9058 1.33 GHz Dual-Core CPU, 2 GB DRAM, 4 GB Storage, Artix-7 100T FPGA, Extended Temperature, 8-Slot CompactRIO Controller.

Models NI 9253, NI 9252 DSUB and NI 9252 are 8 channel analog input modules

Model NI 9805 is a 4-port 802.1AS Ethernet Switch module.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015

Model Nos.	Protection Method Employed
NI 9381 with DSUB, NI 9220, NI 9220 with DSUB, NI 9242, NI 9244, NI 9238, cRIO-9074XT, cDAQ-9138, cDAQ-9139, NI 9154, NI 9155, cDAQ-9188XT, cRIO-9068, cRIO-9066, cRIO-9067, cRIO-9149, NI 9212, NI TB 9212, NI 9218 with DSUB, cDAQ-9132, cDAQ-9134, cRIO-9030, cRIO-9031, cRIO-9033, cRIO-9034, NI 9860, NI 9222 with BNC, NI 9223 with BNC, NI 9503, NI-XNET CAN HS/FD, NI-XNET CAN HS, NI-XNET LIN, NI-XNET CAN LS, NI-XNET CAN SW, NI-XNET CAN FD+PN, NI 9260 with BNC, NI 9260 miniXLR, cRIO-9035, cRIO-9036, cRIO-9038, cRIO-9039, cDAQ-9133, cDAQ-9135, NI 9997, NI 9218, NI 9344, NI 9209 w/ DSUB, NI 9216, NI 9226, NI 9230, cRIO-9063, cRIO-9064, cRIO-9065, NI 9147, NI 9361 NI 9216 w/DSUB, NI 9226 w/DSUB, cDAQ-9136, cDAQ-9137, NI 9770, NI 9251 with mini XLR cRIO-9032, cRIO-9037, NI 9230 with BNC, NI 9232 with BNC, TB 9212 with mini TC, cDAQ-9171, TRC-8542, TRC-8543, TRC-8546, NI 9207, NI 9208, NI 9209, NI 9210 with mini TC, NI 9775, NI 9266, NI 9224, NI 9228, NI 9250 w/ BNC, NI 9145, cDAQ-9191, NI 9266 w/DSUB, cDAQ-9185, cDAQ-9189, NI 9202, NI 9425, NI 9476, cRIO-9045, cRIO-9047, cRIO-9048, cRIO-9049, NI 9350, NI 9351, NI 9262 with DSUB, cRIO-9040, cRIO-9042, cRIO-9043, NI 9202 with DSUB, NI 9210, cRIO-9041, cRIO-9046, cRIO-9053, cRIO-9054, cRIO-9055, cRIO-9056, cRIO-9057, cRIO-9058, NI 9253 and NI 9252, NI 9252 DSUB, NI 9805.	Ex nA IIC T4 Gc

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-40 °C to +70°C	T4
0°C to +55°C	T4
-20°C to +55°C.	T4

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Electrical data

Model	Electrical Ratings	Ambient Temperature Range
cRIO-9074XT	19-30Vdc, 20 Watts	-40 °C to +70°C
NI 9381 with DSUB	0-5V Working Voltage	-40 °C to +70°C
NI 9220	± 10V Working Voltage 250V CAT II Channel to Earth Iso, 2000m Altitude 60 VDC CAT I, Channel to Earth Iso, 5000m Altitude	-40 °C to +70°C
NI 9220 with DSUB	± 10V Working Voltage 60 VDC CAT I, Channel to Earth Iso, 5000m Altitude	-40 °C to +70°C
NI 9154, NI 9155	9-30Vdc, 25W	0°C to +55°C
cDAQ-9138 and cDAQ-9139	9-30VDC, 75W, 60Vdc CAT I, RS-485 to Earth	0°C to +55°C
cRIO-9068	19-30Vdc, 25 Watts	-40 °C to +70°C
cDAQ-9181	9-30Vdc, 15W, -20 - 55C, 5,000m altitude	-40 °C to +70°C
cDAQ-9184	9-30Vdc, 15W, -20 - 55C, 5,000m altitude	-40 °C to +70°C
cDAQ-9188	9-30Vdc, 15W, -20 - 55C, 5,000mn altitude	-40 °C to +70°C
cDAQ-9188XT	9-30 Vdc, 15 W max	-40 °C to +70°C
NI 9242	250 V Working Voltage, 250 V CAT III Channel to Earth ≤ 5000 m Altitude	-40 °C to +70°C
NI 9244	400 Vrms L-N, 800 Vrms L-L Working Voltage, 400 V CAT III Channel to Earth ≤ 2000 m Altitude, 400 V CAT II or 300 V CAT III Channel to Earth ≤ 5000 m Altitude	-40 °C to +70°C
NI 9238	0.5 Vdc Channel to Earth and Channel to Channel ≤ 2000 m Altitude, 60 V CAT I Channel to Earth and Channel to Channel ≤ 5000 m Altitude	-40 °C to +70°C
cRIO-9066, cRIO-9067	9-30V, 25W	-20°C to +55°C
cRIO-9149	9-30V, 19W	-40 °C to +70°C
NI 9212, NI TB 9212, NI TB 9212 with Mini TC	±78.125mV 60Vdc CAT I Ch-to-earth 60Vdc CAT I Ch-to-ch	-40 °C to +70°C
NI 9218 with DSUB	16Vdc input; 9-30Vdc/1.8W input 60V CAT I Ch-to-earth, Ch-to-Ch, Altitude 5000m	-40 °C to +70°C
cDAQ-9134	9-30V dc, 40W max, Altitude 5000m	-40 °C to +70°C
cDAQ-9132, cDAQ- 9136	9-30V dc, 40W max, Altitude 5000m	-20°C to +55°C
cRIO-9031, cRIO- 9033	9-30V dc, 40W man CAT I RS-485-to-earth	-40 °C to +70°C
cRIO-9030, cRIO- 9032, cRIO-9034	9-30V dc, 40W man CAT I RS-485-to-earth	-20°C to +55°C
NI 9860	9-30Vdc, 1.6W	-40 °C to +70°C
NI 9222 with BNC, NI 9223 with BNC	±10V 60VDC CAT I Ch-to-Grd, Ch-to-Ch	-40 °C to +70°C
NI 9503	90-30V dc, 3A, 60Vdc CAT I Channel to Earth	-40 °C to +70°C
NI-XNET CAN HS/FD, NI-XNET CAN HS, NI- XNET LIN, NI-XNET CAN LS, NI-XNET CAN SW, NI-XNET CAN FD+PN	5Vdc, 60Vdc CAT I Channel to Earth	-40 °C to +70°C
NI 9260 with BNC, NI 9260 miniXLR	±3Vrms output, 7mA ≤ 5000m Altitude	-40 °C to +70°C
NI 9997	300V CAT II Channel to Channel, Channel to Earth, 11A ≤ 3000m	-40 °C to +70°C
Ni 9344	5V Internal ≤ 5000m Altitude	-40 °C to +70°C
NI 9218	30Vdc, Vsup Input, 60Vdc CAT I Channel to Earth, ≤ 5000m Altitude	-40 °C to +70°C
cRIO-9036, , cRIO- 9038	9-30Vdc, 46W, 60Vdc CAT O, RS485 to Earth ≤ 5000m Altitude	-40 °C to +70°C
cRIO-9035, cRIO- 9037, cRIO-9039	9-30Vdc, 46W, 60Vdc CAT O, RS485 to Earth ≤ 5000m Altitude	-20°C to +55°C
cDAQ-9135	9-30Vdc, 46W ≤ 5000m Altitude	-40 °C to +70°C
cDAQ-9133, cDAQ- 9137	9-30Vdc, 46W ≤ 5000m Altitude	-20°C to +55°C
NI 9209 w/ DSUB	60V CAT I Ch-to-Earth	-40 °C to +70°C
NI 9216, NI 9226, NI 9216 w/DSUB, NI 9226 w/DSUB	± 30V Working Voltage, 60V CAT I Channel to Earth, 1000V Withstand ≤3000m Altitude; 860V Withstand ≤ 5000m Altitude	-40 °C to +70°C

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Model	Electrical Ratings	Ambient Temperature Range
NI 9230, NI 9230 with BNC, NI 9232 with BNC	± 30 V Working Voltage, 60 Vdc CAT I Channel to Earth	-40 °C to +70°C
cRIO-9065	9-30Vdc, 18W, Altitude 5000m	-40 °C to +70°C
cRIO-9063, cRIO-9064	9-30Vdc, 18W, Altitude 5000m	-20°C to +55°C
NI 9147	9-30Vdc, 11W, Altitude 5000m	-40 °C to +70°C
NI 9361	30Vdc, 60Vdc CAT I, Channel to Earth, Vsup to Earth <= Altitude 5000m	-40 °C to +70°C
NI 9770	30 kHz – 100 MHz 50Ω RF Input	-40 °C to +70°C
NI 9251 with mini XLR	3Vrms, ≤5000m Altitude	-40 °C to +70°C
cDAQ-9171	5 Vdc, 500mA Max. (USB); CAT O "Non-Isolated", 5000m altitude	-20°C to +55°C
TRC-8542, TRC-8543, and TRC-8546	5 Vdc; 60Vdc CAT O Ch-to-grd, 5000m altitude	-40 °C to +70°C
NI 9207	± 10Vdc Measurement Voltage, +/- 21.5mA Measurement Current, ± 30 V Working Voltage, 250 Vrms CAT II Channel to Earth <= 5000m Altitude	-40 °C to +70°C
NI 9208	± 21.5mA Measurement Current, +/- 30 V Working Voltage, 250 Vrms CAT II Channel to Earth <= 4000m Altitude	-40 °C to +70°C
NI 9209	± 10 Vdc Measurement Voltage, +/- 30 V Working Voltage, 250 Vrms CAT II Channel to Earth <= 5000m Altitude	-40 °C to +70°C
NI 9210 with Mini TC	± 80mVdc Measurement Voltage, +/- 30 V Working Voltage, 60 Vdc CAT O Channel to Earth <= 5000m Altitude	-40 °C to +70°C
NI 9775	± 10 Vdc Measurement Voltage, +/- 30 V Working Voltage, Non-Isolated Module <= 5000m Altitude	-40 °C to +70°C
NI 9266	0-20mA, 36 VDC working voltage, with 250Vrms CAT II isolation Channel to Earth	-40 °C to +70°C
NI 9224	± 10V, 60 VDC isolation Channel to Channel and Channel to Ground, up to 5000m	-40 °C to +70°C
NI 9228	± 60 VDC continuous, and isolated Channel to Channel and Channel to Ground, up to 5000m	-40 °C to +70°C
NI 9250 with BNC	± 5V input, +/- 30V overvoltage, 5,000m Altitude	-40 °C to +70°C
NI 9145	9-30 Vdc, 16 W, 5,000m Altitude	-40 °C to +70°C
cDAQ-9191	9-30 Vdc, 6W max	0°C to +55°C
NI 9266 with DSUB	60 VDC Channel to Earth, CAT I, 1000 Vrms withstand.	-40 °C to +70°C
cDAQ-9185, cDAQ-9189	9-30 VDC, 16 W	-40 °C to +70°C
NI 9202	± 10V, 250 Vrms CAT II Channel to Earth, 5,000m Altitude	-40 °C to +70°C
cRIO-9046, cRIO-9047, cRIO-9048	9-30 Vdc, 60W	-40 °C to +70°C
cRIO-9045, cRIO-9049	9-30 Vdc, 60W	-20°C to +55°C
NI 9350	30 VDC max on DIO, 60 VDC Channel to Earth, CAT I, 5,000m Altitude	-40 °C to +70°C
NI 9351	30 VDC max on DIO, AI-to-COM 20 VDC maximum, 60 VDC Channel to Earth, CAT I, 5,000m Altitude	-40 °C to +70°C
NI 9425	30 V Working Voltage 250 Vrms Channel to Earth	-40 °C to +70°C
NI 9476	36 Vdc Working Voltage 0.25 A per Channel 250 Vrms Channel to Earth	-40 °C to +70°C
NI 9262 with DSUB	60Vdc CAT I (O) Channel to Earth Iso	-40 °C to +70°C
NI 9210	250 V RMS, +/- 80mV Measurement Voltage, +/- 1.5V Channel to COM, 250V CAT II Channel to Earth <= 5000m Altitude	-40 °C to +70°C
NI 9202 with DSUB	60 Vdc, 16 channel AI module, 60Vdc CAT O Channel to Earth	-40 °C to +70°C
cRIO-9041, -9042, and -9043	9–30 Vdc, 60 W maximum power consumption	-40 °C to +70°C
cRIO-9040	9–30 Vdc, 60 W maximum power consumption	-20°C to +55°C
NI 9231	±5V, 24 Bit Analog Input, 5000m altitude.	-40 °C to +70°C
NI 9803	4.5W max, 900 mA @ 5V.	-40 °C to +70°C
cRIO-9053	9-30VDC, 30W Maximum	-20°C to +55°C
cRIO-9054	9-30VDC, 30W Maximum	-20°C to +55°C
cRIO-9055	9-30VDC, 30W Maximum	-40 °C to +70°C
cRIO-9056	9-30VDC, 30W Maximum	-20°C to +55°C

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Model	Electrical Ratings	Ambient Temperature Range
cRIO-9057	9-30VDC, 30W Maximum	-20°C to +55°C
cRIO-9058	9-30VDC, 30W Maximum	-40 °C to +70°C
NI 9252	±10 V 24-bit simultaneous analog input. 250 Vrms CAT II Channel to Earth 60 VDC CAT O Ch-to-earth	-40 °C to +70°C
NI 9252 DSUB	±10 V 24-bit simultaneous analog input. 250 Vrms CAT II Channel to Earth 60 VDC CAT O Ch-to-earth	-40 °C to +70°C
NI 9253	±20 mA 24-bit simultaneous analog input 250 Vrms CAT II Ch-to-Earth Isolation	-40 °C to +70°C
NI 9805	9-30V, 5W, CAT I	-40 °C to +70°C

Routine tests:

Routine tests are not required.

[16] Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17] Special Conditions of Use:

- (For all models except NI 9770) - You must make sure that transient disturbances do not exceed 140% of the rated voltage.
- The system shall be mounted in an ATEX certified enclosure with a minimum ingress protection of at least IP54 as defined in EN 60079-15.
- The system shall only be used in an area of not more than Pollution Degree 2, as defined in EN 60664-1.
- The enclosure must have a door or cover accessible only by the use of a tool.

[18] Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.



will be used as the company identifier on the marking label.