



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 05/60002(E6) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	National Instruments Corporation 11500 N. Mopac Expressway Austin, Texas, 78759-3504 United States of America (USA)	
PLACE OF PRODUCTION	NI Malaysia Sdn. Bhd. 8 Lebuh Batu Maung 1 11960 Bayan Lepas, Penang Malaysia	National Instruments Hungary Kft. 4031 Debrecen 1/A Hatar Street Hungary
DESCRIPTION	Reconfigurable Control and Data Acquisition System	
TYPE	CompactRIO (cRIO)	
APPLICATION	Marine and offshore application in Category ENV1, ENV2, ENV3* and ENV4 as defined in Lloyd's Register Type Approval System Test Specification No.1 2002 where the test specification is satisfactory for the intended operation.	
	Note: Items marked * are not ENV3.	
STANDARD	Manufacturer's Specification IEC60068-2-27 (shock) IEC60068-2-64 (random vibration)	
Certificate No.	05/60002(E7)	
Issue Date	18 August 2015	
Expiry Date	12 February 2020	
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Hubert Palej

Toronto Technical Support Office

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IEC60068-2-6 (sinusoidal vibration)
 EN61326-1:1997 + A2:2002
 FCC (47CFR 15)
 ICES 003
 AS/NZS 2064
 IEC 61010-1
 EN61010-1
 UL 61010-1
 CSA No.61010-1
 IEC 60079-0, IEC 60079-15
 EN 60079-0, EN 60079-15
 UL 60079-0, UL 60079-15
 CSA 60079-0, CSA 60079-15

TECHNICAL DETAILS

Controllers:

cRIO-9002	Controller, 11-30Vdc, 17W
cRIO-9004	Controller, 11-30Vdc, 17W
cRIO-9012	Controller, 9-35Vdc, 20W
cRIO-9014	Controller, 9-35Vdc, 20W
cRIO-9022*	Controller, 9-35Vdc, 35W
cRIO-9023	Controller, 9-35Vdc, 35W
cRIO-9024*	Controller, 9-35Vdc, 35W
cRIO-9025	Controller, 9-35Vdc, 35W

Chassis:

cDAQ-9188XT	8 Slot Ethernet Chassis, 9-30V, 15W
cRIO-9101	4 I/O Module Slots, 30Vdc, 4 ch
cRIO-9102	8 I/O Module Slots, 30Vdc, 8 ch
cRIO-9103	4 I/O Module Slots, 30Vdc, 4 ch
cRIO-9104	8 I/O Module Slots, 30Vdc, 8 ch
cRIO-9111	4 I/O Module Slots, 30Vdc, 4 ch
cRIO-9112	8 I/O Module Slots, 30Vdc, 8 ch
cRIO-9113	4 I/O Module Slots, 30Vdc, 4 ch
cRIO-9114	8 I/O Module Slots, 30Vdc, 8 ch

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cRIO-9116	8 I/O Module Slots, 30Vdc, 8 ch
cRIO-9118	8 I/O Module Slots, 30Vdc, 8 ch
NI 9157*	14 I/O Module Slots, 9-30Vdc, 35W
NI 9159	14 I/O Module Slots, 9-30Vdc, 35W
NI 9144	8 I/O Module Slots, 9-30Vdc, 20W
NI 9148*	8 I/O Module Slots, 9-30Vdc, 20W
NI 9146	4 I/O Module Slots, 9-30Vdc, 15W
NI 9154*	8 I/O Module Slots, 9-30Vdc, 30W
NI 9155*	8 I/O Module Slots, 9-30Vdc, 30W
<i>Chassis with integrated Controllers:</i>	
cRIO-9030	4 I/O Module Slots, Controller, 9-30Vdc, 40W, 4-ch
cRIO-9031	4 I/O Module Slots, Controller, 9-30Vdc, 40W, 4-ch
cRIO-9033	4 I/O Module Slots, Controller, 9-30Vdc, 40W, 4-ch
cRIO-9034	4 I/O Module Slots, Controller, 9-30Vdc, 40W, 4-ch
cRIO-9035	8 I/O Module Slots, Controller, 9-30Vdc, 46W, 8-ch
cRIO-9036	8 I/O Module Slots, Controller, 9-30Vdc, 46W, 8-ch
cRIO-9038	8 I/O Module Slots, Controller, 9-30Vdc, 46W, 8-ch
cRIO-9039	8 I/O Module Slots, Controller, 9-30Vdc, 46W, 8-ch
cRIO-9066	8 I/O Module Slots, Controller, 9-30Vdc, 25W, 8-ch
cRIO-9067	8 I/O Module Slots, Controller, 9-30Vdc, 25W, 8-ch
cRIO-9068	8 I/O Module Slots, Controller, 9-30Vdc, 25W, 8-ch
NI 9149	Ethernet Expansion for C Series Modules

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cDAQ-9133	8 I/O Module Slots, Controller, 9-30Vdc, 46 W, 8-ch
cDAQ-9135	8 I/O Module Slots, Controller, 9-30Vdc, 46 W, 8-ch
cDAQ-9132	4 I/O Module Slots, Controller, 9-30Vdc, 4-ch
cDAQ-9134	4 I/O Module Slots, Controller, 9-30Vdc, 40W, 4-ch
cRIO-9072*	8 I/O Module Slots, Controller, 19-30Vdc, 20W, 8 ch
cRIO-9074*	8 I/O Module Slots, Controller, 19-30Vdc, 20W, 8 ch
cRIO-9073*	8 I/O Module Slots, Controller, 19-30Vdc, 20W, 8 ch
cRIO 9081*	8 I/O Module, Controller, 9-30Vdc, 75W, 8 ch
cRIO 9082*	8 I/O Module, Controller, 9-30Vdc, 75W, 8 ch
cRIO 9075*	4 I/O Module Slots, Controller, 9-30Vdc, 15W, 4 ch
cRIO 9076*	4 I/O Module Slots, Controller, 9-30Vdc, 15W, 4 ch

Modules:

NI 9201	Analog Input, Medium Voltage, 30Vdc, 250V ch-to-earth, 8 ch
NI 9201 with DSUB	Analog Input, Medium Voltage, 10Vdc, 60V ch-to-earth, 8 ch
NI 9203	Analog Input, Current, 20mA, 250V ch-to-earth, 8 ch
NI 9205	Analog Input, Medium Voltage, 10Vdc, 250V ch-to-earth, 32 ch
NI 9205 with DSUB	Analog Input, Medium Voltage, 10Vdc, 250V ch-to-earth, 32 ch

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NI 9206	Analog Input, Medium Voltage, 10Vdc, 600V (US)/400V(EU) ch-to-earth, 16 ch for Fuel Cells
NI 9207 with DSUB	Analog Input, Thermocouple, Voltage, 10Vdc, 20mA, 60V ch-to-earth, 16 ch
NI 9208 with DSUB	Analog Input, Current, 20mA, 60V ch-to-earth, 16 ch
NI 9211	Analog Input, Thermocouple, 30V, 250V ch-to-earth, 4 ch
NI 9212	Analog Input, Thermocouple, 30V 250V ch-to-earth, 16-ch
NI 9214	Analog Input, Thermocouple, 78mV, 250V ch-to-earth, 16 ch
NI TB-9214	Analog Input, 78mV, 250V ch-to-earth, 3 ch
NI 9215	Analog Input, Medium Voltage, 10Vdc, 250V ch-to-earth, 4 ch
NI 9215 with BNC	Analog Input, Medium Voltage, 10Vdc, 60V ch-to-earth, 4 ch
NI 9217	Analog Input, RTD, 400 Ohm, 250V ch-to-earth, 4 ch
NI 9218 with DSUB	Dynamic universal, $\pm 30V$ ch-to-ch, 60Vdc ch-to-earth, 2-ch
NI 9219	Analog Input, High Voltage, 60V, 250V ch-to-earth, 4 ch
NI 9220 with DSUB	Analog Input, Medium Voltage, 10Vdc, 60Vdc ch-to-earth, 16 ch
NI 9221	Analog Input, High Voltage, 60V, 250V ch-to-earth, 8 ch
NI 9221 with DSUB	Analog Input, High Voltage, 60Vdc, 60V ch-to-earth, 8 ch
NI 9222 with BNC	Analog Input, $\pm 10 V$, ch-to-ch, 60Vdc ch-to-earth, 4-ch
NI 9222	Analog Input, Medium Voltage, 10V, 60Vdc

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NI 9223	ch-to-ch, ch-to-earth, 4 ch Analog Input, Medium Voltage, 10V, 60Vdc ch-to-ch, ch-to-earth, 4 ch
NI 9223 with BNC	Analog Input, ± 10 V, ch-to-ch, 60Vdc ch-to- earth, 4-ch
NI 9225	Analog Input, High Voltage, 300V, 300V ch- to-earth, 3 ch
NI 9229	Analog Input, High Voltage, 60V, 250V ch- to-earth, 4 ch
NI 9230	Analog Input, IEPE and AC/DC, ± 30 V, 3-ch
NI 9232	Analog Input, IEPE sensors, 30V, 60Vdc ch- to-earth, 3 ch
NI 9233	Analog Input, IEPE sensors, 5V, 30V ch-to- earth, 4 ch
NI 9237	Analog Input, Full/Half-Bridge Strain, 250mVdc, 250V ch-to-earth, 4 ch
NI 9237 with DSUB	Analog Input, Half/Full Bridge, V dc AI Bridge, 60Vdc ch-to-earth, 4 ch
NI 9238	24-bit ch-ch analog input module, ± 0.5 V
NI 9239	Analog Input, Medium Voltage, 10V, 250V ch-to-earth, 4 ch
NI 9242	24-bit analog input, 4-ch, 250Vrms L-N, 400Vrms L-L
NI 9244	24-bit analog input, 4-ch, 400Vrms L-N, 690Vrms L-L
NI 9260 with BNC	24-bit analog output, 2-ch, 3Vrms output
NI 9263	Analog Input, Medium Voltage, 10V, 250V ch-to-earth, 4 ch
NI 9264 with DSUB	Analog Output, Voltage, 10V, 60V ch-to- earth, 16 ch
NI 9265	Analog Output, Current, 20mA, 250V ch-to- earth, 4 ch

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NI 9344	4-ch switch input, 4-ch LED output
NI 9375	Digital Input, 30V Sinking, Digital Output, 30V Sourcing, 30Vdc, 60Vdc ch-to-earth, 32 ch
NI 9375 with DSUB	Digital Input, 30V Sinking, Digital Output, 30V Sourcing, 30Vdc, 60Vdc ch-to-earth, 32 ch
NI 9381 with DSUB	Multi I/O, 0-5Vdc, 20 ch
NI 9401	Digital Input, Medium Voltage, 10V, 250V ch-to-earth, 4 ch
NI 9403 with DSUB	Digital Input, Medium Voltage, 30V, 60V ch-to-earth, 32 ch
NI 9411	Digital Counter/Timer, TTL Sinking/Source, 5V, 250V ch-to-earth, 8 ch
NI 9421	Digital Input, 24V Sinking, 30Vdc, 250V ch-to-earth, 8 ch
NI 9421 with DSUB	Digital Input, 24V Sinking, 30Vdc, 60V ch-to-earth, 8 ch
NI 9422	Digital Input, 24V Sinking/Sourcing, 60Vdc, 250V ch-to-earth, 8 ch
NI 9423	Digital Input, 24V Sinking, 30V, 250V ch-to-earth, 8 ch
NI 9425	Digital Input, 24V Sinking, 60Vdc, 60Vdc ch-to-earth, 32 ch
NI 9426 with DSUB	Digital Input, 30V Sinking, 30Vdc, 60Vdc ch-to-earth, 32 ch
NI 9435	Digital Input, 250 AC/DC Universal, 250V, 250Vdc ch-to-earth, 4 ch
NI 9437	Sinking digital input, 8-ch, 24-250Vdc ch-to-earth
NI 9467	SMA Female Connector, Antenna Output, 5Vdc, 30mA, 1 port

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NI 9469	RJ45, -1.4 V to 3.8 V (M-LVDS), 3 port
NI 9472	Digital Output, 24V Sourcing, 30V, 0.75/ch, 60Vdc ch-to-earth, 8 ch
NI 9472 with DSUB	Digital Output, 24V Sourcing, 30V, 0.75/ch, 60V ch-to-earth, 8 ch
NI 9474	Digital Output, 24V Sourcing, 30V, 250V ch-to-earth, 8 ch
NI 9475 with DSUB	Digital Sourcing, 60V, 60Vdc ch-to-earth, 8 ch
NI 9476	Digital Output, 30V Sourcing, 30V, 1A/ch, 60Vdc ch-to-earth, 32 ch
NI 9477	Digital Output, RTD Sinking, 60Vdc, 250V ch-to-earth, 8ch
NI 9478 with DSUB	Digital Output, 50V, 60Vdc ch-to-earth, 16 ch
NI 9485	Relay Output, SSR Form A (SPST), 60Vdc, 250V ch-to-earth, 8 ch
NI 9801	Secure Digital Storage 2 slot
NI 9861	9-30Vdc, 60Vdc ch-to-earth, 1 port
NI 9862	9-30Vdc, 60Vdc ch-to-earth, 1 port
NI 9866	8-18Vdc, 60Vdc ch-to-earth, 1 port
NI 9870	RS232 Serial Communications, 25Vdc, 60Vdc ch-to-earth, 4 port
NI 9871	RS485 Serial Communications, 13Vdc, 60Vdc ch-to-earth, 4 port
NI 9881	9-30Vdc, 60Vdc ch-to-earth, 1 port
NI 9882	9-30Vdc, 60Vdc ch-to-earth, 1 port
<i>Power Supplies:</i>	
PS-5	Input: 100-240Vac/1.9A, Output 24Vdc/5A

OTHER CONDITIONS

Installation of this equipment for marine applications is to be in accordance with current Lloyd's Register Rules and Regulations.

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Model number 'NI' prefix may or may not be present or may be cRIO.

To meet electromagnetic compatibility (EMC) requirements the product is to be installed in a shielded enclosure with shielded and/or filtered power and input/output ports. Power supply and module cables shall be separated on opposite sides of the enclosure, and enter/exit through opposing enclosure walls.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Canada Limited of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 05/60002(E7) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 05/60002(E6) to which this extension should be attached.

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