

1788 Linking Device Specifications

Catalog Numbers 1788-EN2DNR, 1788-EN2FFR, 1788-EN2PAR, 1788-CN2DN, 1788-CN2FFR, 1788-CN2PAR, 1788-FB4R, 1788-FB6

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1788-EN2DNR EtherNet/IP to DeviceNet Linking Device

The 1788-EN2DNR linking device connects an EtherNet/IP network to a DeviceNet network.

Technical Specifications - 1788-EN2DNR

Attribute	1788-EN2DNR
Power requirements	Input: 24V DC, 150 mA, Class 2/SELV DeviceNet: 24V DC, 60 mA, Class 2/SELV
Isolation voltage	30V (continuous), basic insulation type, power to system, Ethernet to system, DeviceNet to system, and USB to system. Type tested at 500V AC for 60 s.
Ethernet connection	RJ45 connector according to IEC 60603-7, 2 or 4 pair Category 5e minimum cable according to TIA 568-B.1 or Category 5 cable according to ISO/IEC 24702.
DeviceNet connection ⁽¹⁾	0.52 mm ² (20 AWG), 1485C-P1-Cxxx.
Power connection	Power: 0.25...2.5 mm ² (22...14 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 1.2 mm (3/64 in.) insulation max.
Wiring category ⁽²⁾	2 - on power ports 2 - on communication ports
North American temperature code	T4
IEC temperature code	T4

(1) Refer to DeviceNet Media Design Installation Guide, publication [DNET-UM072](#).

(2) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Environmental Specifications - 1788-EN2DNR

Attribute	1788-EN2DNR
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	-25...60 °C (-13...140 °F)
Temperature, surrounding air, max.	60 °C (140 °F)
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40...85 °C (-40...185 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
Vibration IEC 60068-2-6 (Test Fc, Operating)	2 g @ 10...500 Hz
Emissions CISPR 11 (IEC 61000-6-4)	Class A

Attribute	1788-EN2DNR
ESD Immunity IEC 61000-4-2	6 kV contact discharge 8 kV air discharge
Conducted RF Immunity IEC 61000-4-6	10 V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Radiated RF Immunity IEC 61000-4-3	10 V/m with 1 kHz sine-wave 80% AM from 80...1000 MHz and 1400...2000 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 1 V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
EFT/B Immunity IEC 61000-4-4	±3 kV at 5 kHz on power ports ±3 kV at 5 kHz on communication ports
Surge Transient Immunity IEC 61000-4-5	±500V line-line (DM) and ±1 kV line-earth (CM) on power ports ±2 kV line-earth (CM) on communication ports
Voltage variation IEC 61000-4-29	10 ms interruption on DC power port

Certifications - 1788-EN2DNR

Certification (when product is marked) ⁽¹⁾	1788-EN2DNR
c-UL-us	UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
CE	European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1: Meas./Control/Lab., Industrial Requirements EN 61000-6-2: Industrial Immunity EN 61000-6-4: Industrial Emissions EN 61131-2: Programmable Controllers (Clause 8, Zone A and B) European Union 2011/65/EU RoHS, compliant with: <ul style="list-style-type: none"> EN 50581; Technical Documentation
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> EN 61000-6-4; Industrial Emissions
Ex	European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> Article 58-2 of Radio Waves Act, Clause 3
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications
DeviceNet	ODVA conformance tested to DeviceNet specifications

(1) See the Product Certification link at <http://www.ab.com> for declarations of conformity, certificates, and other certification details.

1788-CN2DN ControlNet to DeviceNet Linking Device

The 1788-CN2DN linking device connects a ControlNet network to a DeviceNet network.

Technical Specifications - 1788-CN2DN

Attribute	1788-CN2DN
Power requirements	Input: 24V DC, 500 mA DeviceNet: 24V DC, 90 mA, Class 2
Isolation voltage	30V (continuous), basic insulation type, between all ports. Type tested at 720V DC for 60 s.
ControlNet connection	RG6
DeviceNet connection ⁽¹⁾	0.52 mm ² (20 AWG), 1485C-P1-Cxxx.
Power connection	Power: 0.25...2.5 mm ² (22...14 AWG) solid or stranded copper wire rated at 75 °C (167 °F), or greater, 1.2 mm (3/64 in.) insulation max.
Wiring category ⁽²⁾	3 - on power ports 2 - on communication ports
Dimensions (H x W x D), approx.	120 x 200 x 87 mm (4 11/16 x 7 7/8 x 3 7/16 in.)
Enclosure type rating	None (open-style)
North American temperature code	T4A
IEC temperature code	T4

(1) Refer to DeviceNet Media Design Installation Guide, publication [DNET-UM072](#).

(2) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Environmental Specifications - 1788-CN2DN

Attribute	1788-CN2DN
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0...60 °C (32...140 °F)
Temperature, surrounding air, max.	60 °C (140 °F)
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40...85 °C (-40...185 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
Vibration IEC 60068-2-6 (Test Fc, Operating)	2 g @ 10...500 Hz

Attribute	1788-CN2DN
Emissions CISPR 11 (IEC 61000-6-4)	Class A
ESD Immunity IEC 61000-4-2	6 kV contact discharge 8 kV air discharge
Conducted RF immunity IEC 61000-4-6	10 V rms with 1 kHz sine-wave 80% AM from 150 kHz . . . 80 MHz
Radiated RF immunity IEC 61000-4-3	10 V/m with 1 kHz sine-wave 80% AM from 30 . . . 2000 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3 V/m with 1 kHz sine-wave 80% AM from 2000 . . . 2700 MHz
EFT/B immunity IEC 61000-4-4	±4 kV at 5 kHz on power ports ±3 kV at 5 kHz on communication ports
Surge Transient immunity IEC 61000-4-5	±2 kV line-earth (CM) on communication ports

Certifications - 1788-CN2DN

Certification (when product is marked) ⁽¹⁾	1788-CN2DN
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
CSA	CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C.
CE	European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1: Meas./Control/Lab., Industrial Requirements EN 61000-6-2: Industrial Immunity EN 61000-6-4: Industrial Emissions EN 61131-2: Programmable Controllers (Clause 8, Zone A and B)
C-Tick	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> AS/NZS CISPR 11; Industrial Emissions
Ex	European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements I 3 G Ex nA IIC T4X Gc
DeviceNet	ODVA conformance tested to DeviceNet specifications
CI	ControlNet Int'l conformance tested to ControlNet specifications.

(1) See the Product Certification link at <http://www.ab.com> for declarations of conformity, certificates, and other certification details.

Linking Devices to FOUNDATION Fieldbus Networks

The 1788-EN2FFR linking device provides a gateway between EtherNet/IP and FOUNDATION Fieldbus networks.

The 1788-CN2FFR linking device provides a gateway between ControlNet and FOUNDATION Fieldbus networks.

Technical Specifications - 1788-EN2FFR, 1788-CN2FFR

Attribute	1788-EN2FFR, 1788-CN2FFR
Power requirements	Input: 24...32V DC, 0.75 A, Class 2/SELV Foundation Fieldbus (FF): 0.5 A @24V DC single trunk; 0.4 A @ 24V DC dual trunk Power is connected to the linking device by using the 2-way Phoenix connector.
Power consumption	260 mA at 24 V (with no field devices attached)
Power dissipation	12.24 W at 24V DC
Isolation voltage	30V (continuous), basic insulation type, network channels to power, and network channels to network channels. No isolation between redundant network channels. Type tested at 500V DC for 60 s.
Ethernet conductors	CAT5 STP/UTP
Terminal torque	DC Power connections: 0.22...0.25 N•m (2...2.2 lb•in) Fieldbus connections: 0.5...0.6 N•m (4.4...5.3 lb•in)
Wire size	DC power and Foundation Fieldbus connections: 0.205...0.823 mm ² (24...18 AWG) solid or stranded copper wire rated at 82 °C (180 °F) or greater 1.2 mm (3/64 in.) insulation max
Wiring category ⁽¹⁾	1 - on power ports 2 - on ControlNet, Ethernet, and Foundation Fieldbus ports
Enclosure type rating	None (open-style)
North American temperature code	T4
IEC temperature code	T4

(1) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Environmental Specifications - 1788-EN2FFR, 1788-CN2FFR

Attribute	1788-EN2FFR, 1788-CN2FFR
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0...60 °C (32...140 °F)
Temperature, surrounding air, max.	60 °C (140 °F)
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	0...60 °C (32...140 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing

Attribute	1788-EN2FFR, 1788-CN2FFR
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	15 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Vibration IEC 60068-2-6 (Test Fc, Operating)	0.5 g @ 10...500 Hz
Emissions CISPR 11 (IEC 61000-6-4)	Class A
ESD Immunity IEC 61000-4-2	6 kV contact discharge 8 kV air discharge
Conducted RF immunity IEC 61000-4-6	10 V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Radiated RF immunity IEC 61000-4-3	10 V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3 V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
EFT/B immunity IEC 61000-4-4	±4 kV at 5 kHz on power ports ±3 kV at 5 kHz on Ethernet and FF ports
Surge Transient immunity IEC 61000-4-5	±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports ±1 kV line-earth (CM) on ControlNet ports ±2 kV line-earth (CM) on Ethernet and FF ports

Certifications - 1788-EN2FFR, 1788-CN2FFR

Certification (when product is marked) ⁽¹⁾	1788-EN2FFR, 1788-CN2FFR
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E320594. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E320595.
CE	European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1: Meas./Control/Lab., Industrial Requirements EN 61000-6-2: Industrial Immunity EN 61000-6-4: Industrial Emissions EN 61131-2: Programmable Controllers (Clause 8, Zone A and B)
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> EN 61000-6-4; Industrial Emissions
Ex	European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> Article 58-2 of Radio Waves Act, Clause 3
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications
FF	Foundation Fieldbus Test Campaign Number: CT0152FF

(1) See the Product Certification link at <http://www.ab.com> for declarations of conformity, certificates, and other certification details.

FOUNDATION Fieldbus Junction Boxes

The 1788-FB4R and 1788-FB6 junction boxes provide connections to FOUNDATION Fieldbus networks.

Technical Specifications - 1788-FB4R, 1788-FB6

Attribute	1788-FB4R	1788-FB6
Power requirements	Input: 12...32V DC, 0.5 A, Class 2/SELV Trunk output: 12...32V DC, 0.36 A, resistive only Drop output: 12...32V DC, 40 mA, resistive only	Input: 12...32V DC, 0.5 A, Class 2/SELV Trunk output: 12...32V DC, 0.48 A, resistive only Drop output: 12...32V DC, 40 mA, resistive only
Power consumption	40 mA at 24 V max.	
Isolation voltage	No isolation between communication channels	
Conductor temperature rating	> 82 °C (180 °F)	
Terminal torque	0.5...0.6 N·m (4.4...5.3 lb·in)	
Wire size	DC power and Foundation Fieldbus connections: 0.205...0.823 mm ² (24...18 AWG) solid or stranded copper wire rated at 82 °C (180 °F) or greater 1.2 mm (3/64 in.) insulation max	
Wiring category ⁽¹⁾	2 - on communication ports	
Enclosure type rating	None (open-style)	
North American temperature code	T4	
IEC temperature code	T4	

(1) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Environmental Specifications - 1788-FB4R, 1788-FB6

Attribute	1788-FB4R, 1788-FB6
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0...60 °C (32...140 °F)
Temperature, surrounding air, max.	60 °C (140 °F)
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	0...60 °C (32...140 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	15 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Vibration IEC 60068-2-6 (Test Fc, Operating)	0.5 g @ 10...500 Hz
Emissions CISPR 11 (IEC 61000-6-4)	Class A

Attribute	1788-FBJB4R, 1788-FBJB6
ESD immunity IEC 61000-4-2	6 kV contact discharge 8 kV air discharge
Conducted RF immunity IEC 61000-4-6	10 V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Radiated RF immunity IEC 61000-4-3	10 V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3 V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
EFT/B immunity IEC 61000-4-4	±3 kV at 5 kHz on communication ports
Surge Transient immunity IEC 61000-4-5	±2 kV line-earth (CM) on communication ports

Certifications - 1788-FBJB4R, 1788-FBJB6

Certification (when product is marked) ⁽¹⁾	1788-FBJB4R, 1788-FBJB6
c-UR-us	UL Recognized Component Industrial Control Equipment, certified for US and Canada. See UL File E320594. UL Recognized Component Industrial Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for US and Canada. See UL File E320595.
CE	European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1: Meas./Control/Lab., Industrial Requirements EN 61000-6-2: Industrial Immunity EN 61000-6-4: Industrial Emissions EN 61131-2: Programmable Controllers (Clause 8, Zone A and B)
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> EN 61000-6-4; Industrial Emissions
Ex	European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> Article 58-2 of Radio Waves Act, Clause 3

(1) See the Product Certification link at <http://www.ab.com> for declarations of conformity, certificates, and other certification details.

Linking Devices to Profibus PA Networks

The 1788-EN2PAR linking device provides a gateway between EtherNet/IP and Profibus PA networks.

The 1788-CN2PAR linking device provides a gateway between ControlNet and Profibus PA networks.

Technical Specifications - 1788-EN2PAR, 1788-CN2PAR

Attribute	1788-EN2PAR, 1788-CN2PAR
Power requirements	Input: 24...32V DC, 0.75 A, Class 2/SELV PA: 0.5 A @ 24V DC single trunk; 0.4 A @ 24V DC dual trunk Power is connected to the linking device by using the 4-way Phoenix connector.
Power consumption	260 mA at 24 V (with no field devices attached)
Power dissipation	12.24 W at 24V DC
Isolation voltage	30V (continuous), basic insulation type, network channels to power, and network channels to network channels. No isolation between redundant network channels. Type tested at 500V DC for 60 s.
Ethernet conductors	CAT5 STP/UTP
Terminal torque	DC Power connections: 0.22...0.25 N•m (2...2.2 lb•in) Profibus PA connections: 0.5...0.6 N•m (4.4...5.3 lb•in)
Wire size	DC power and Profibus PA connections: 0.205...0.823 mm ² (24...18 AWG) solid or stranded copper wire rated at 82 °C (180 °F) or greater 1.2 mm (3/64 in.) insulation max
Wiring category ⁽¹⁾	1 - on power ports 2 - on ControlNet, Ethernet, and Foundation Fieldbus ports
Enclosure type rating	None (open-style)
North American temperature code	T4
IEC temperature code	T4

(1) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Environmental Specifications - 1788-EN2PAR, 1788-CN2PAR

Attribute	1788-EN2PAR, 1788-CN2PAR
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0...60 °C (32...140 °F)
Temperature, surrounding air, max.	60 °C (140 °F)
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	0...60 °C (32...140 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing

Attribute	1788-EN2PAR, 1788-CN2PAR
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	15 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Vibration IEC 60068-2-6 (Test Fc, Operating)	0.5 g @ 10...500 Hz
Emissions CISPR 11 (IEC 61000-6-4)	Class A
ESD immunity IEC 61000-4-2	6 kV contact discharge 8 kV air discharge
Conducted RF immunity IEC 61000-4-6	10 V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Radiated RF immunity IEC 61000-4-3	10 V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3 V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
EFT/B immunity IEC 61000-4-4	±4 kV at 5 kHz on power ports ±3 kV at 5 kHz on Ethernet and FF ports
Surge Transient immunity IEC 61000-4-5	±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports ±1 kV line-earth (CM) on ControlNet ports ±2 kV line-earth (CM) on Ethernet and FF ports

Certifications - 1788-EN2PAR, 1788-CN2PAR

Certification (when product is marked) ⁽¹⁾	1788-EN2PAR, 1788-CN2PAR
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E320594. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E320595.
CE	European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1: Meas./Control/Lab., Industrial Requirements EN 61000-6-2: Industrial Immunity EN 61000-6-4: Industrial Emissions EN 61131-2: Programmable Controllers (Clause 8, Zone A and B)
RCM	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> EN 61000-6-4; Industrial Emissions
Ex	European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> Article 58-2 of Radio Waves Act, Clause 3
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications

(1) See the Product Certification link at <http://www.ab.com> for declarations of conformity, certificates, and other certification details.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
EtherNet/IP to DeviceNet Linking Device User Manual, publication 1788-UM059	Provides information on installing and using the 1788-EN2DNR linking device.
ControlNet-to-DeviceNet Linking Device Installation Instructions, publication 1788-IN052	Provides information on installing and using the 1788-CN2DN linking device.
EtherNet/IP and ControlNet to FOUNDATION Fieldbus Linking Devices User Manual, publication 1788-UM057	Provides information on the installation and operation of the 1788-EN2FFR and 1788-CN2FFR linking devices.
EtherNet/IP and ControlNet to PROFIBUS PA Linking Device User Manual, publication 1788-UM058	Provides information on the installation and operation of the 1788-EN2PAR and 1788-CN2PAR linking devices.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation® industrial system.
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at <http://www.rockwellautomation.com/literature/>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Notes:

Important User Information

Solid-state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (publication [SGI-1.1](#) available from your local Rockwell Automation sales office or online at <http://www.rockwellautomation.com/literature/>) describes some important differences between solid-state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid-state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this publication are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

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