BradCommunications™ Direct-Link™ gateways are an easy-to-use and cost-effective solution for accessing a wide range of fieldbus systems.

DeviceNet™ Gateway

Connect DeviceNet to Serial or Ethernet Devices

Features

- Wide choice of connectivity options between DeviceNet, Ethernet and Serial
- DIN rail, IP20 mounting
- Easy-to-use configuration and diagnostic software tools included
- CE certified

Typical Applications

- Connecting serial devices
- Simple network extensions
- Remote data acquisition through Ethernet
- Monitoring your plant floor

Networks Supported for Other Direct-Link Gateways:

- PROFIBUS®
- AS-Interface®
- DeviceNet
- CANopen®
- Modbus™ TCP/IP
- Modbus Serial
- Allen-Bradley® DF1

Product Overview

The BradCommunications™ Direct-Link™ gateway supports communication between DeviceNet and Serial or Ethernet networks through an RS232/RS485 serial port, a 10/100 Base-T Ethernet port, and a DeviceNet port.

Through the Serial port, the gateway can be a Modbus master or slave node on a local Modbus network or a DF1 master.

Through the Ethernet port, a Direct-Link gateway can be a Modbus TCP master or slave node on an Ethernet network.

Through the DeviceNet port, the gateway can be a DeviceNet slave node on a DeviceNet network.

Routing tables are used to route messages received on a Modbus or Modbus TCP slave node to devices on the other network. In addition, network data mapping can be used to automatically transfer data between devices connected to the Direct-Link gateway. A simple software application is provided to create the routing tables and data mappings.

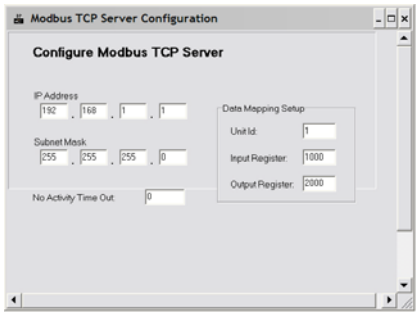
Woodhead

BradCommunications™

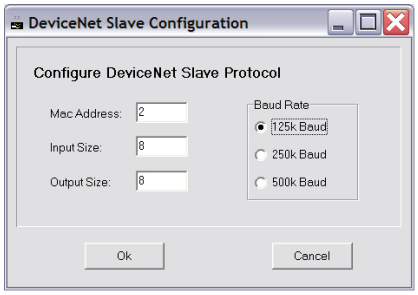
DeviceNet™ Gateway

Software Tools

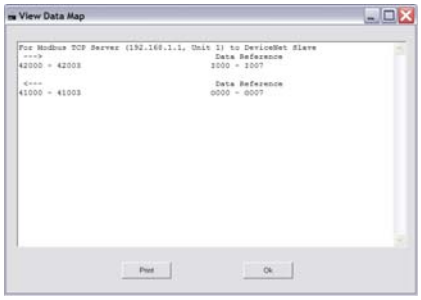
Modbus TCP Server Configurator



DeviceNet Slave Configurator



Data Mapping



Environmental Specifications

Input Voltage	6 V to 28 V DC
Current Consumption	Dependant on configuration
Operating Temperature	-30°C to +70°C (-22°F to +158°F)

General Specifications

Dimensions	99.7 x 75 x 110mm (3.925 x 2.952 x 4.330 inches)
Switches	4-position DIP switch

Ethernet

Connector	UTP (10 Base-T/100 Base-TX) RJ-45
Physical Medium	UTP 10 Base-T/100 Base-TX
Baud Rates	10, 100 Mbps
Protocols	Modbus™ TCP (master/slave)

DeviceNet

Connector	DeviceNet open connector (male)
Physical Medium	CAN bus
Baud Rates	125, 250, 500 Kbps
Protocols	DeviceNet slave

Serial

Socket **Mating Plug**	Entrelec™ – L253 109 11 000 Entrelec™ – L243 209 01 000
Physical Medium	RS232 RS485 (2-wire half-duplex)
Baud Rates	300, 600, 1200, 2400, 4800, 9600, 19200 bps, 38.4, 57.6, 76.8, 93.7, 115.2, 187.5, 230.4 kbps
Parity	Even/odd/none
Data Bits	7/8
Flow Control	None/RTS/RTS delay
Protocols	Modbus RTU (master/slave) Modbus ASCII (master/slave) Allen-Bradley DF1 (master)

Ordering Information

Part Number	Description
DRL-DVN-SRE	DeviceNet to Serial or Ethernet gateway

Related Products

Part Number	Description
DRL-PFB-SRE	PROFIBUS® to Serial or Ethernet gateway
DRL-2ASI-CAN	2 AS-Interface® channels to CANopen® gateway
DRL-2ASI-DN	2 AS-Interface channels to DeviceNet gateway
DRL-2ASI-ETH	2 AS-Interface channels to Ethernet gateway
DRL-2ASI-PFB	2 AS-Interface channels to PROFIBUS gateway
DRL-2ASI-SER	2 AS-Interface channels to Serial gateway
APP-ETH-PCU	Ethernet + Serial universal PCI network interface
APP-ESR-GTW	Serial to Ethernet programmable gateway
DN-MTR	DeviceNet diagnostic meter
DN3020PM-1	DeviceNet power diagnostic tee

Gateway

BradCommunications™
from Woodhead Industries

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