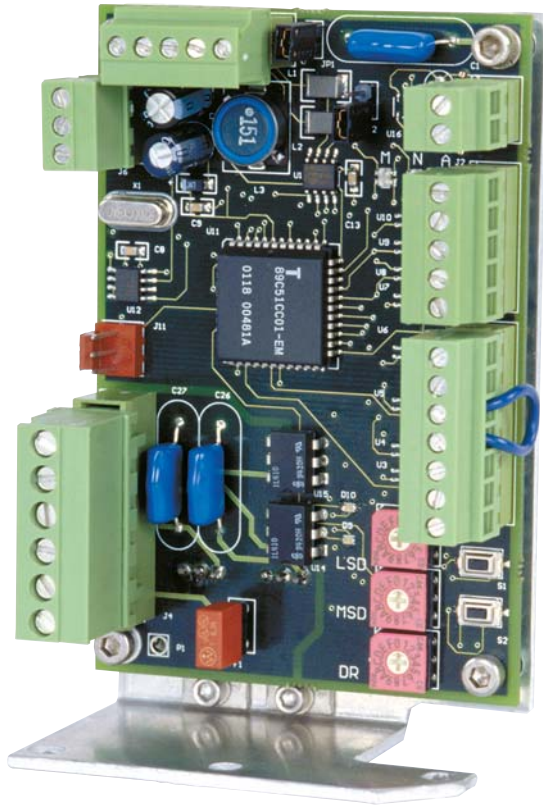


## DeviceNet™ Control Logic Card



### Models

**DNET115**  
115 Volt A.C. Actuators

### Hardware Specifications

<b>Supply Power:</b>	2W @ 24VDC
<b>Operating Temperature:</b>	-20°C – 70°C
<b>Storage Temperature:</b>	-40°C – 80°C
<b>Humidity:</b>	90% Non Condensing
<b>Solid State Outputs:</b>	(2) Isolated 600VAC 15A
<b>Digital Inputs:</b>	(8) Dry Contacts

### Application

For on/off or positioning control of motorized valves. DeviceNet™ is a type of communication network that allows up to 63 field devices to be linked together with a single five-conductor cable. DeviceNet™ is a product of Allen-Bradley and is an open, non-proprietary, bus network. Typically, a DeviceNet™ system is used with the Allen-Bradley PLC5 and SLC series of programmable logic controllers. A standard DeviceNet™ Scanner interface is available for both types. Devices in the field are connected via a drop line to a 5 conductor trunk-line that is then routed to the scanner card.

### Features

- Provides open/stop/close or positioning control with limit switch status feedback.
- Provides instantaneous motor reversal protection.
- Command and end-of-travel verification alarm.
- Conforms to ODVA standards.
- Easy-to-see LED indicators for all control outputs, status inputs and diagnostic alarm.
- ESD functions for 'go open', 'stay put', or 'go closed'.

<b>Analog Inputs:</b>	(2) Channels (see below)
<b>Processor:</b>	Temic 89C51CC01
<b>RAM:</b>	1K
<b>Flash:</b>	32K
<b>EEPROM:</b>	32K

## Specifications

### Technical Summary of DeviceNet™

<b>Network Size:</b>	Up to 64 nodes (including scanner)
<b>Network Length:</b>	Up to 1,640 ft. at 125 Kbps.
<b>Data Packets:</b>	0-8 bytes
<b>Bus Topology:</b>	Trunkline/Dropline
<b>Cable:</b>	5-Conductor cable (2 for power, 2 for communication, and 1 for ground).
<b>Thick Trunk Lines:</b>	Belden 3082A or 3083A
<b>Thin Drop Lines:</b>	Belden 3084A or 3085A
<b>Drop Lines:</b>	Max. drop length is 20 ft. with cumulative drop length of 512 ft.
<b>Repeaters:</b>	Not currently, but expected in future revisions of specifications.

### Serial Interfaces

One CAN 2.0 port.

### Network Communication Protocols

Module Supports DeviceNet™ Group 2 Slave.

### Analog Inputs Specification

<b>Resolution:</b>	10bit
<b>Accuracy:</b>	1% of FS.
<b>Linearity:</b>	1% of FS.
<b>Temperature Drift:</b>	2% of FS.
<b>Range:</b>	0 to 5V or 0-20mA input for AI1 1-5K Potentiometer for the Position Feedback.

### Input/Output Listing

#### Digital Input Status:

Bit 0	Communication Loss
Bit 1	Reserved
Bit 2	Loss of Position Signal
Bit 3	Motor Stall
Bit 4	Limit Calibration Incorrect
Bit 5	Thermostat Trip
Bit 6	Manual Operation
Bit 7-15	Reserved

#### Digital Output Command:

Bit 0	Open Command
Bit 1	Close Command
Bit 2	Stop Command
Bit 3	ESD Command
Bit 4-7	Future

### Environmental

<b>Temperature Range:</b>	Storage: -40°C to +90°C Operating: -20°C to +80°C
<b>Humidity Range:</b>	5% to 95% at 25°C non-condensing
<b>Vibration:</b>	IEC 6B-2-6 1G @ 40-50 Hz., 0.012p-p @ 10-40 Hz.

### Industrial Products Group Dresser, Inc.

16240 Port Northwest Drive  
Houston, Texas 77041-2645 USA  
Ph: 832.590.2306  
Toll Free Phone: 800.945.9898

Fax: 713.849.2879  
Email: rcs@dresser.com, andco@dresser.com



[www.dresser.com](http://www.dresser.com)