# Moniteur

### *DeviceNet Valve Networking*



## Moniteur DeviceNet Valve Position Controllers

Moniteur VPCs with encapsulated DeviceNet interface cards adapt your on/off automated valves to an advanced DeviceNet valve network. Money and time will be saved as installation and maintenance are streamlined with reduced wiring and improved system diagnostics.

Based on the CAN protocol, the DeviceNet protocol was developed by Allen Bradley to provide industry with a simple and cost effective method of networking field devices. Moniteur supplies a full range of accessories including cable and quick- disconnect connectors to simplify installation.

#### Moniteur's Advanced DeviceNet Platform Improves Reliability

- 1) The Network Card. A full function encapsulated network card for the DeviceNet protocol includes the following benefits:
  - A) Encapsulated electronics and position sensors ensures reliability in corrosive, humid and dirty environments.
  - B) Hall effect position sensors designed for the card and provide optimum stability in areas of high vibration.
  - C) Two transistor outputs with a combined output of 4.8w @ 24VDC are available for your solenoid valves
  - E) High visibility LEDs are located on-board for local indication of on -board sensors, auxiliary inputs, outputs and network state.
  - F) Two additional inputs are available for local pressure or temperature switches.

**2) The Enclosure.** Moniteur's platform is available in many configurations:

- A) Housings in Aluminum, Hard Anodized Aluminum or SuperTough Zytel for General Purpose or Hazardous Areas
- B) Moniteur's Engineered Loc-Ring Cam and Shaft Retention System assures stable output signals in difficult environments and a multi-million cycle life.
- C) Optional DIN 5-pin Female Micro plug connectors can be fitted to the conduit entries of the enclosures to speed installation.
- **3) The Visual Indicator.** Moniteur's High Visibility Valve Position Indication preferred by users worldwide, available in a wide variety of colors and flow patterns.
- 4) The Solenoid Valve. Low power solenoid valves optimized for the network card output, available pre- wired with the VPC or with direct NAMUR actuator mounting.

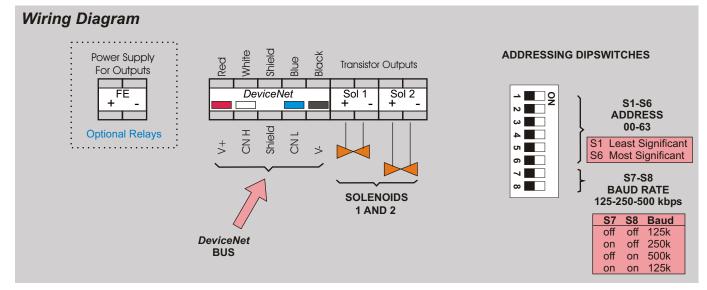
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#### DeviceNet Technical Information

- Each network supports up to 64 nodes or addresses
- 125K, 250K, and 500K bit/sec.
- 1640ft. maximum trunk length

- Thick and Thin cable types
- Trunkline / Dropline topology
- Supports online node insertion and removal



#### Standard DeviceNet Network Card Specifications

Power voltage current	24Vdc ±15% <70mA	On-Board Sensor In type	(2) Hall effect solid-state sensors, (1) for each valve position LEDs
Communication type	slave polled 1 byte TX - 1byte RX 0 to 63 set by dipswitch 125-250-500 Kbs Baud set by dipswitch 25ms	local indication	
communication word addressing transmission rate digital filter		Auxiliary Inputs Type voltage current indicator	(2) Namur, by DIN19234 or mechanical switch 8Vdc ± 5% - ripple 5% active <1mA inactive >3mA (2) LEDs
Configuration	protection	reversed polarized	
Input - Byte 1 Output - Byte 1	bit 0 - sensor 1 bit 1 - sensor 2 bit 0 - output 1 (sol. 1) bit 1 - output 2 (sol. 2)	<b>Output</b> type transistor rating	(2) transistor or relay, programmable to NO or NC 24VDC / 400 mA 120 VAC, 220 VAC, 24 VDC 0.30A (2) LEDS
Local Indication green (light) green (flashing) red (flashing) red (light)	active and allocated active and allocated wrong baud rate or lost communication double address or lost communication	relay voltage relay power indicator	

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Intelligent Part Number System

