Features

• Continuously monitors a DeviceNet™ network in a passive state

• Provides feedback to an EtherNet/IP™ master or one of three methods to a personal computer (PC) residing on Ethernet
  ▶ NetAlytix™ software
  ▶ DLL interface
  ▶ OPC server

• High-speed sampling of network parameters
  ▶ Signals are sampled millions of times per second providing extremely accurate values

• Information captured includes:
  ▶ Overall network status and measurements
  ▶ Individual node status and measurements
  ▶ Detailed measurements of power (V+, V-), signal (CANH, CANL) and shield parameters
  ▶ Common mode voltage for entire network and each node
  ▶ Minimum / maximum and average values

• Warning and Fault flags indicate when a value has exceeded a set tolerance (levels are customizable)

• NetAlytix software enables fast device setup or USB port allows configuration without a PC

• Compact design with DIN rail or panel mount option for quick and easy installation

Overview

BradCommunications™ eNetMeter™ DN is a passive device that continuously monitors a DeviceNet network and sends the information over Ethernet to a PLC or PC monitoring system. The information can be read directly by an EtherNet/IP™ master. Optionally, data can be accessed through BradCommunications NetAlytix™ software, a DLL interface or an OPC server.

eNetMeter DN provides extremely accurate measurements of the network parameters using high-speed sampling. By comparing acceptable baseline measurements of a “good” network, it can predict imminent failures down to individual devices. Measurements can be used in such a way, that when an OPC status tag is analyzed and is found to be outside the acceptable limits, steps can be taken to repair the system prior to any downtime.

eNetMeter DN can be used to diagnose current faults on a non-functioning network through the measurement of hundreds of network parameters. This can minimize downtime by pinpointing the node or location of the fault. The data can also be stored to historian software for future analysis. This is useful for companies typically involved with batching applications including pharmaceutical, food & beverage. If a problem occurs with a specific batch, the historical data can be viewed to see if any network problems occurred during the same time frame. This allows the company to then make any necessary adjustments to prevent re-occurrences from happening in the future.
### Specifications

**Hardware:**
- **Diagnostic LEDs & Control:** Ready, System/Boot, Power & Comm; Reset (recessed)
- **Operating Temperature:** 0 to 60°C
- **Storage Temperature:** -5 to 75°C
- **Humidity:** 5% to 95% non-condensing
- **RoHS Compliant:** Yes
- **Approvals:** CE, cULus (pending)
- **Enclosure:** IP10
- **Mounting:** DIN rail or panel (screw) mounted
- **USB:** USB 2.0 master, for transfer/storage of configuration parameters

**Network Specifications:**
- **Protocols:** DeviceNet, EtherNet/IP for reading data
- **Cable:** DeviceNet: compatible with target network
  - Ethernet: Cat 5e shielded
- **Connector:**
  - Ethernet: RJ45
  - DeviceNet: 5-pole M12 Micro-Change®
  - Auxiliary power: screw terminal
- **DeviceNet Power:**
  - M12 Micro-Change 5-pole threaded connector
  - -11 to 25 VDC, 250 mA (typical @ 24 VDC)
- **Isolation:** 500 V
- **Data Rate:**
  - DeviceNet: 125K, 250K and 500K baud
  - Ethernet: 10/100 M baud

**Ordering Information**

<table>
<thead>
<tr>
<th>SAP Material Number</th>
<th>Catalog Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1120080008</td>
<td>SST-ENM-DN1</td>
<td>eNetMeter™ DN diagnostic tool for DeviceNet</td>
</tr>
<tr>
<td>1120080011</td>
<td>SST-NAS-DN1</td>
<td>NetAlytix™ software for eNetMeter DN (includes full application, DLL/API, OPC Server)</td>
</tr>
</tbody>
</table>

NetAlytix Lite software is included with eNetMeter DN to allow setting of the IP address, parameter configuration, and other basic commissioning tasks.

**Dimensions:** mm [inches]

To contact us: [www.woodhead.com](http://www.woodhead.com)  
Reference Number: DW2008250  
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