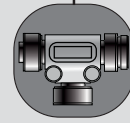


**DeviceNet NetMeter®**

- Diagnostic/troubleshooting tool
- Analyzes both power and bit stream information
- Hand held with simple user interface



*The DeviceNet NetMeter empowers untrained personnel to diagnose and troubleshoot network installations quickly and easily, without risk. Completely passive on the network, the meter analyzes the data and power lines on your DeviceNet network. In seconds, both network-wide and device-specific traffic as well as power monitoring information is captured and displayed on a simple, straightforward user interface. Auto Search checks bus errors, bus traffic, bus power voltage, shield voltage, common mode voltage, CAN\_H/L Differential, CAN\_H and CAN\_L Voltage and summarizes network health with helpful troubleshooting icons.*

- Empowers untrained personnel to diagnose and troubleshoot the network quickly and easily
- Simplifies network wide and device specific information with easy user interface for fast diagnostics and troubleshooting
- Certifies proper operation of new DeviceNet installations quickly





NetMeter® offers

- simple user interface
- great value proposition for the features
- passive on network, cannot create faults or bus errors on network through usage
- links faults found to extensive diagnostic of cross-reference likely network fixes for fast real world troubleshooting
- generates statistics for troubleshooting intermittent faults
- high accuracy
- includes mating cordsets N15030D20M0103 and N85030D20M0103
- prevents downtime as it detects marginal conditions prior to them causing faults




PART NUMBER	DESCRIPTION
DN-MTR	NETMETER – MONITORS BITSTREAM TRAFFIC; POWER LINES FOR DEVICENET
DN-MTR-BAG	CONVENIENCE BAG FOR DEVICENET METER

### TWO OPERATIONAL MODES OF USE

#### Electrician Mode (simple)

1. PLUG IN AND SET NETMETER ROTARY SWITCH TO "AUTOSEARCH"
2. IDENTIFY NETWORK HEALTH  
 - HAPPY FACE = HEALTHY   
 - NEUTRAL FACE = NOMINAL   
 - SAD FACE = FAULTY 
3. SCROLL THROUGH FAULTS. REFER TO USER MANUAL TO LINK THESE FAULTS TO MOST LIKELY NETWORK PROBLEMS OR FREEZE AND LOCK SETTINGS FOR THE PLANT CONTROL ENGINEER TO REVIEW 

#### DeviceNet Expert Mode (advanced)

1. SCROLL THROUGH DEVICENET PARAMETERS FOR EACH ACTIVE DEVICENET NODE (MAC ID)  
 - COMMUNICATION ERRORS (RATE, CUMULATIVE #)  
 - BANDWIDTH (% OF FULL USAGE)  
 - POWER SUPPLY AND SHIELD VOLTAGES  
 - DATA BIT QUALITY (DOMINANT, RECESSIVE, +, -, DIFFERENTIAL VOLTAGE, CMV)
2. CHECK VALUES (BOTH NUMERIC AND ICONS)  
 - HAPPY FACE = WITHIN SPEC   
 - NEUTRAL FACE = VERY CLOSE TO LIMIT   
 - SAD FACE = OUT OF LIMIT 
3. REFER TO USER MANUAL TO LINK THESE FAULTS TO MOST LIKELY NETWORK PROBLEMS

- POWER SUPPLY: NETWORK 11 – 30V DC < 60mA  
 BATTERIES 2 X AA ALKALINE BATTERIES  
 6 HOURS OF OPERATION APPROX. 1 YEAR  
 DATA RETENTION
- CONNECTORS: QTY (1) MICRO-MICRO CONNECTOR AND  
 QTY (1) MICRO-MINI
- BAND RATES: 125K, 250K AND 500K (AUTO –DETECT)
- ANALOG ACCURACY: BUS POWER ± 100mV, BUS SIGNAL ± 20mV
- ANALOG RANGE: BUS POWER 0 TO 25V WITH  
 OVER/UNDER RANGE INDICATION  
 BUS SIGNAL -5 TO 10 WITH  
 OVER/UNDER RANGE INDICATION
- ANALOG SAMPLE RATE: BUS POWER 1 KHZ BUS SIGNAL IDEAL  
 SAMPLE PT±250 nS
- SIGNAL ERROR THRESHOLD: PER DEVICENET SPEC FOR NETWORK  
 POWER
- BUS LOAD MEASUREMENT: DETECTS BUS IDLE IN REAL TIME  
 BUS MESSAGE RATE  
 MEASUREMENT: DETECTS 100% OF INDIVIDUAL CAN  
 FRAMES IN REAL TIME
- ERROR RATE MEASUREMENT: DETECTS 100% OF INDIVIDUAL ERROR  
 FRAMES IN REAL TIME

### MODES

	PRESENT VALUE	MAXIMUM	MINIMUM	PEAK-TO-PEAK
BUS ERROR	X	X	X	
BUS TRAFFIC	X	X	X	
BUS PWR VOLTAGE	X	X	X	X
SHIELD VOLTAGE	X	X	X	
COMMON MODE VOLTAGE		X		
CAN_H/L DIFFERENTIAL	X	X	X	
CAN_H VOLTAGE	X	X	X	
CAN_L VOLTAGE	X	X	X	