DeviceNet Detective 2

A *DeviceNet* Diagnostic Tool

The DeviceNet Detective 2 is a comprehensive, diagnostic and configuration tool specifically designed for factory floor personnel.

The DeviceNet Detective quickly solves network problems and eliminates the need for expensive notebook computer tools for DeviceNet.

To use the DeviceNet Detective, simply plug it into any DeviceNet network. Use the rotary dial to scroll through the functions shown on the menus on each screen. The Detective quickly and easily reveals critical data that previously was hidden. Simplicity of operation is the key feature.

A 320 x 240 pixel OLED display presents the detailed diagnostic and configuration information needed to support DeviceNet network installations. The DeviceNet Detective provides a complete listing of all devices on the network and provides easy to understand information about all nodes such as address, baud rate, error conditions and messaging attributes. The Bus Diagnostics feature provides a wealth of information about the dynamics of the network, and helps users focus on solving network node problems.

Other functionality of the DeviceNet Detective includes detection of the CAN bitrate, bus load measurement, and termination measurement. As well as receiving CAN messages, it can transmit either individual messages or entire sequences of them. In addition, the internal memory card allows tracing of the CAN/DeviceNet message traffic.

The integrated two-channel oscilloscope enables visualization of the CAN signals. Single CAN IDs and various events can be used as triggers. The CAN frames are decoded from the recorded signal, for example, to detect errors in the frame.

Features:
- Simple Hand Held Tool
- Graphic Display
- DeviceNet / CAN Diagnostics
- 2 Channel Oscilloscope
- 3 Cables Included
- Internal Memory Card for storage of data
- Network Powered, Battery Backup
- USB connection to PC
- On-Device Help
- Industrial Carrying Case

gridconnect

1630 W. Diehl Rd. Naperville, Illinois 60563 USA
+1 630 245 1445   www.gridconnect.com

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Specifications:

- **DeviceNet / CAN Interface**
  - Standard 125k, 250k, 500k baud rates
  - D-Sub 9-pin Connector male
  - High-speed CAN ISO 11898-2 (PCA82C251)
- **Cables**
  - Open (terminal block) Connector Cable
  - Sealed Mini Cable
  - Sealed Micro Cable
- **Oscilloscope**
  - 2 channels
  - 20 MHz
  - 64 kSamples storage
- **Power Requirements**
  - 4 x AA 1.2 V rechargeable batteries (included)
  - 24 VDC, 100 mA supplied by DeviceNet Network
- **Dimensions**
  - 103 x 58 x 212 mm (225 with BNC connector)
- **Weight**
  - 400 g (14.1 oz.) (without batteries)
- **Environmental**
  - IP20
  - 0 - +50 ℃ (+32 - +122 ℉) operating
  - -40 - +80 ℃ (-40 - +176 ℉) storage
  - 15 to 90% non-condensing humidity
- **Regulatory**
  - RoHS, CE
  - EN 61326-1:2006-10
    EC directive 2004/108/EG
    EN 55011
- **Warranty**
  - 2 years limited

```
DND/Message traffic          TR act
MACID ACTIVITY               ERR
00 G1:- G2:-- G3:--           0
05 G1:- G2:-- G3:--           0
31 G1:S G2:D- G3:--           1
55 G1:- G2:-- G3:--           0
Group4 activity: No
Refresh ClearAll Exit
```

```
DND/BusDiag                  TR act
Supply voltage.: 23.5V
Lowest voltage.: 23.4V
Highest voltage: 23.6V
CAN bitrate....: 125k
Bus load.......:    1%
CAN error rate.:    0/sec
CAN error count:    0
CAN_H mean.....:  3.1V
CAN_L mean.....:  1.9V
CAN_H voltage..: 2.2 to 4.1V
CAN_L voltage..: 1.1 to 2.7V
Restart Exit
```

Ordering Information:

Phone: +1 800 975-4743 USA
+1 630 245-1445
+1 630 245-1717 FAX

Email: sales@gridconnect.com
Web: www.gridconnect.com

Part Numbers/Description:

GC-DETECT-DN2 / Hand held DeviceNet Detective Unit, 3 DeviceNet cables, AA batteries, Carrying Case

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