

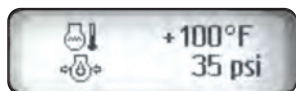


# 2-inch CAN Display - SAE J1939

## NexSysLink<sup>®</sup> CAN Instruments Product Family **SAE J1939**



Instrument Shown  
Actual Size



Configurable Two Line Display

### Features and Benefits

- SAE J1939 CAN protocol support
- Compact packaging
- 32 X 128 dot matrix graphic LCD
- Displays active and stored faults (SAE J1939 DM1 & DM2)
- Single or Dual Line Display
- Three discrete LED indicators
- Alarm output capable of switching up to 150 mA
- Built in audible alarm (mutable)
- Built-in, sealed, tactile rubber keypad
- Bright, adjustable LED illumination
- Environmentally sealed connectors

### Product Description

The NexSysLink<sup>®</sup> CAN Bus display instrument reads and processes SAE J1939 compliant CAN messages.

The sunlight visible, transfective LCD displays operating parameters and is complemented by three discrete alert LED's.

An intuitive menu driven user interface accessed by three built-in tactile switches allows for easy display configuration.

Stand-alone and Master Node (MNI) configurations available. MNI configuration drives NexSysLink<sup>®</sup> SNI & ASNI gauges.

### SAE J1939 Parameter Set\*

| Parameter Name             | SPN  | Parameter Name               | SPN     |
|----------------------------|------|------------------------------|---------|
| Accelerator Pedal Position | 91   | Fuel Rate                    | 183     |
| Alternator Voltage         | 167  | Engine Fuel Temperature      | 174     |
| Battery Current            | 114  | Engine Hours                 | 247     |
| Battery Voltage            | 168  | Engine Oil Level             | 98      |
| Boost Pressure             | 102  | Engine Oil Pressure          | 100     |
| Coolant Level              | 111  | Engine Oil Temperature       | 175     |
| Coolant Pressure           | 109  | Hydraulic Oil Level          | 2602    |
| Coolant Temperature        | 110  | Hydraulic Temperature        | 1638    |
| DEF Level                  | 1761 | Intercooler Temperature      | 52      |
| DEF Temperature            | 3031 | Percent Load                 | 92      |
| Engine Speed (RPM)         | 190  | Vehicle Miles                | 245/917 |
| Exhaust Gas Temperature    | 173  | PTO Speed                    | 186     |
| Fuel Economy (Average)     | 185  | Engine Throttle Position     | 51      |
| Fuel Level 1               | 96   | Vehicle Speed                | 84      |
| Fuel Level 2               | 38   | Transmission Oil Level       | 124     |
| Fuel Delivery Pressure     | 94   | Transmission Oil Pressure    | 127     |
|                            |      | Transmission Oil Temperature | 177     |

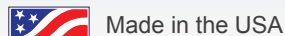
\*Only actively broadcast parameters appear on the LCD.

### Customizable Features

- Bezel profile, material & finish
- Dial face graphics & colors
- LCD Illumination color

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### Environmental Specifications

- Shock (Non-operating):
  - 50G, 9-13mS half-sine,
  - 25 shocks in each of three orthogonal axes
- Vibration (Non-operating):
  - 0.06" (1.5mm) double amplitude 10-80-10 Hz
  - 2 hours in each of three orthogonal axes
- Temperature:
  - Operating, -20°F to 158°F (-30°C to 70°C)
  - Storage, -40°F to 185°F (-40°C to 85°C) 50% RH
- Humidity:
  - 95% relative humidity @110°F (43°C) non-condensing
- Salt Spray:
  - Meets or exceeds ASTM 117, 48 hours

### Electrical Specifications

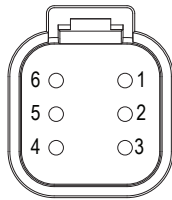
- Reverse Polarity Protection:
  - Standard entire system
- Load Dump:
  - Meets SAE J1113, 3 positive 80V transients
  - one minute intervals
- Operating Voltage:
  - 11-16VDC standard
- Over Voltage:
  - Withstands 18V continuously for one hour
- Output Signal Switching:
  - 150 mA Max.
- LCD:
  - Transflective FSTN dot matrix
  - positive image mode standard
  - 6:00 O'Clock viewing angle
  - LED illuminated. Color, white

### Mechanical

- Bezel Material:
  - Stainless steel or aluminum
  - Finish, customer specified
- Case:
  - White thermoplastic copolymer
- Dial:
  - Textured finish polymer
  - Opaque characters & background
- Sealing:
  - IP 65 compliant

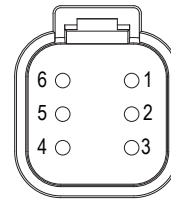
## Wiring Connections

### Stand-Alone Configuration Connections



| Connector Wiring Table |                 |
|------------------------|-----------------|
| Pin Number             | Connection Name |
| 1                      | Battery +       |
| 2                      | Ground          |
| 3                      | Switched Output |
| 4                      | Lamp (B+)       |
| 5                      | CAN-H           |
| 6                      | CAN-L           |

### Master Node Configuration Connections\*



| Connector Wiring Table |                 |
|------------------------|-----------------|
| Pin Number             | Connection Name |
| 1                      | Battery +       |
| 2                      | Ground          |
| 3                      | Serial Data     |
| 4                      | Switched Output |
| 5                      | CAN-H           |
| 6                      | CAN-L           |

- Mating Connector: Deutsch I.P.D. DT Series connector DT-06-6S, locking wedge W6A
- 16-20 AWG stranded copper wire recommended for all electrical connections.
- \*Master Node configuration capable of driving up to 16 Slave Node (SNI) or Analog Slave Node (ASNI) NexSysLink

\* gauges.

## Product Outline Drawing

Mounting hole size:  
 $\varnothing 2.125 \pm .015"$   
 $(\varnothing 53.98 \pm 0.38\text{mm})$

Mounting hardware torque:  
 6 lb-in  
 $(0.68 \text{ N-m})$  max.

Refer to the appropriate  
 Beede installation instruction  
 sheet for complete installation  
 requirements.

Dimensions shown are in inches.

