DESCRIPTION:
Deluxe MFD is a multi-function display featuring an electronic CAN-bus architecture derived from a world-class OEM instrument cluster. It provides critical operating information to the user to ensure optimal performance. The display screen is extra wide for maximum visibility. Sealed push-buttons offer improved tactile feel. Designed for severe-duty, the unit is field programmable via intuitive menu control.

FEATURES:
- Dot-matrix LCD, 1/8 VGA, 320 x 120 resolution
- Viewing area 112 x 43 mm, grayscale, LED backlight
- Built-in heater; anti-fog coated safety glass lens
- 4 tactile switches, sealed, white LED backlighting
- Intuitive menu control: Escape, Up, Down, Enter
- 50 stored standard parameters (per SAE J1939)
- Fault codes displayed via “pop-up” to alert user
- Maintains active and stored fault codes listing
- 2 status indicators, oversized, LED, amber & red
- Password protection for Performance Page settings
- Options: Language, units, backlighting, contrast

INPUTS/OUTPUTS:
- 4 configurable digital or analog inputs
- 1 high-side switch (e.g. to drive buzzer)
- 1 low-side switch (e.g. to drive relay)
- 1 ignition input
- 1 battery input
- 1 ground
- 1 CAN channel

COMMUNICATION LINK:
- CAN interface, SAE J1939 protocol

PIN ASSIGNMENTS:

<table>
<thead>
<tr>
<th>Connector 1: Pin/Function</th>
<th>Connector 2: Pin/Function:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Ground (Power Supply)</td>
<td>1: Digital/analog 1(Input)</td>
</tr>
<tr>
<td>2: Low-side switch (Driver)</td>
<td>2: Digital/analog 2 Input</td>
</tr>
<tr>
<td>3: Spare</td>
<td>3: Digital/analog 3 (Input)</td>
</tr>
<tr>
<td>4: CAN+ (J1939 interface)</td>
<td>4: Battery + (Power supply)</td>
</tr>
<tr>
<td>5: CAN - (J1939 interface)</td>
<td>5: High-side switch (Driver)</td>
</tr>
<tr>
<td>6: Ignition (Key switch)</td>
<td>6: Digital/analog 4 (Input)</td>
</tr>
</tbody>
</table>

SPECIFICATION SHEET

ELECTRICAL:
- System voltage: 12/24V nominal, 9-32 VDC range
- Electrical protection: Reverse polarity, transients including load-dump, over-voltage & ESD.

ENVIRONMENTAL:
- Operating temperature: -40°C to +85°C
- Storage temperature: -55°C to +85°C
- Sealing: IP 67, with anti-fog coated safety glass lens
- Compliant: SAE standards for vibration & salt spray

PHYSICAL CHARACTERISTICS:
- Weight: 1.2 lbs (0.54 kg)
- Mounting: Panel installation via 4 tabs
- Engineering resin enclosure, reinforced, UV resistant

CONNECTORS:
- 2 6-pin Deutsch DT Series connectors, sealed (IP 67)

CONFIGURATION/OPTION:
Configurable via menu selections. Displays Performance and Status Pages via multiple screen partitioning. Use “Esc” (Escape), Up, Down or “Enter” for navigation. Auto-scroll option enables continuous looping. Unit can be set up for English, Spanish or French. Analog input can be configured for resistance or voltage. Fuel input configurable in popular 240-33.5Ω or 10-180Ω ranges.

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