Mini MFD

DESCRIPTION:
Mini MFD is a compact multi-function display featuring an electronic CAN-bus architecture and platform derived from our standard Direct Data-Bus Instrument (DDBI™) tachometer. It provides critical operating information to the user to ensure optimal performance. Sealed push-buttons offer improved tactile feel. Designed for severe-duty, the unit is configurable via intuitive menu control, with 50 stored parameters.

FEATURES:
- LCD, 128 x 96 resolution, viewing area 42 x 29 mm
- Integrated keypad with 4 tactile switches, sealed
- Intuitive menu control: Escape, Up, Down, Enter
- 50 stored standard parameters (per SAE J1939)
- Amber LED backlighting for LCD
- White LED backlighting for switches
- 2 status indicators, LED, amber & red
- Configurable for digital & analog inputs
- Switched output capability—controls accessories
- Password-protected capability for initial set-up & configuration

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 a relay)
- 1 ignition input
- 1 battery input
- 1 ground for analog sender
- 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: Battery (Power Supply)</td>
<td>1: Ignition (Key switch)</td>
</tr>
<tr>
<td>2: Ground (Power Supply)</td>
<td>2: Digital/analog 2 (Input)</td>
</tr>
<tr>
<td>3: Digital/analog 1 (Input)</td>
<td>3: Digital/analog 3 (Input)</td>
</tr>
<tr>
<td>4: CAN+ (J1939 interface)</td>
<td>4: Digital/analog 4 (Input)</td>
</tr>
<tr>
<td>5: CAN - (J1939 interface)</td>
<td>5: Analog Ground (Sender)</td>
</tr>
<tr>
<td>6: Low-side switch (Driver)</td>
<td>6: High-side switch (Driver)</td>
</tr>
</tbody>
</table>

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

ENVIRONMENTAL:
- Operating temperature: -30°C to +85°C
- Storage temperature: -55°C to +85°C
- Sealing: IP 67; Anti-fog coated safety plastic lens
- Compliant: SAE standards for vibration & salt spray

PHYSICAL CHARACTERISTICS:
- Weight: 0.32 lbs (0.15 kg)
- Mounting: Panel installation via bracket
- Same size as standard tachometer (3-3/8” diameter)
- Engineering resin enclosure, reinforced, UV resistant

CONNECTORS:
- 2 6-pin Deutsch DT Series connectors, sealed (IP 67)
- Pin-for-pin compatible with competitor’s unit (Ask Maxima for more details)

CONFIGURATION/OPERATION:
Configurable via menu selections. Displays various Performance and Status Pages via one or two lines of text and/or icons. Use “Esc” (Escape), Up, Down or “Enter” to navigate set-ups and choice of screens. 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.