



UIP-CD

Universal Instrument Panel - Color Display



Features

- ◆ 4.3-inch WQVGA LCD color display
- ◆ Operating temperature: -40 to +85 Deg°C
- ◆ Anti-fog coating (J1810)
- ◆ CAN J1939 communications
- ◆ Real Time Clock with timekeeping backup
- ◆ Internal alarm, multiple sounds
- ◆ +9 to +32 VDC operating voltage
- ◆ 4 dimmable LED dedicated icons
- ◆ 3 button interface with soft keys
- ◆ 7 configurable inputs, STB/STG
- ◆ 13 switch to ground inputs
- ◆ 6 analog inputs
- ◆ 3 switch to ground outputs
- ◆ Up to 7 stepper motor driven gauges
- ◆ 1 DEF LED bargraph
- ◆ English/metric configurable
- ◆ 4 telltales monitored to Cummins AEB 15.110

AMETEK VIS' UIP-CD is part of the Universal Instrument Panel family of clusters that can satisfy the instrumentation requirements for in-cab vehicle platforms. Easily customize the gauges, telltales and display to fit your application with minimal cost and time.

The large, easy-to-read color graphics display provides real time data information, diagnostics, fault codes, user set up features, and maintenance requirements. There are up to eight gauges, twenty LED telltales, with four of the LED telltales dimmable for night time driving.

One of the eight gauges is a bargraph gauge with four progressive bars that can satisfy the requirements of a DEF gauge. The lowest bar can be changed from green to amber to red at customer specified values to alert the operator of critically low conditions.

The speedometer gauge will automatically backlight either the major scale or minor scale depending on whether English or Metric is selected in the menu.

UIP-CD features an internal alarm with multiple sounds that can be configured for various alarm conditions. Five of the gauges also have warning LEDs to alert the operator of existing conditions.

UIP-CD is sealed to IP53 specifications for in-cab applications. The cluster features an anti-fog coating to meet J1810 fogging requirements. The display meets all SAE J1113 requirements for vehicular instrumentation.

AMETEK[®]
VEHICULAR INSTRUMENTATION SYSTEMS

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Specifications

Physical Characteristics

4.3-inch LCD color display, 1000 cd/m²
 WQVGA, 480 x 272
 Connector type: Tyco 16 positions (2x8): 175966-2
 Tyco 20 positions (2x10): 175967-2
 Sealed to IP53
 Anti-fog coating, meets J1810 fogging requirements
 3 Pushbutton Switches
 20 LED icons
 Up to 7 stepper motor driven gauges
 1 LED DEF bargraph gauge

Environmental Characteristics

Temperature, humidity, shock, vibration, and salt spray:
 meets or exceeds SAE # J1455-2012-08
 Operational temperature: -40°C to +85°C
 Storage temperature: -40°C to +85°C

Electrical Inputs

Battery/Ignition – 9 to 32 volts
 7 Configurable STB/STG Inputs
 13 Switch to Ground Inputs
 6 Analog Inputs, resistive, or 0 to +5 VDC

Electrical Outputs

3 Switch to Ground: 1 Amp max
 Aux 5V, 100mA Output

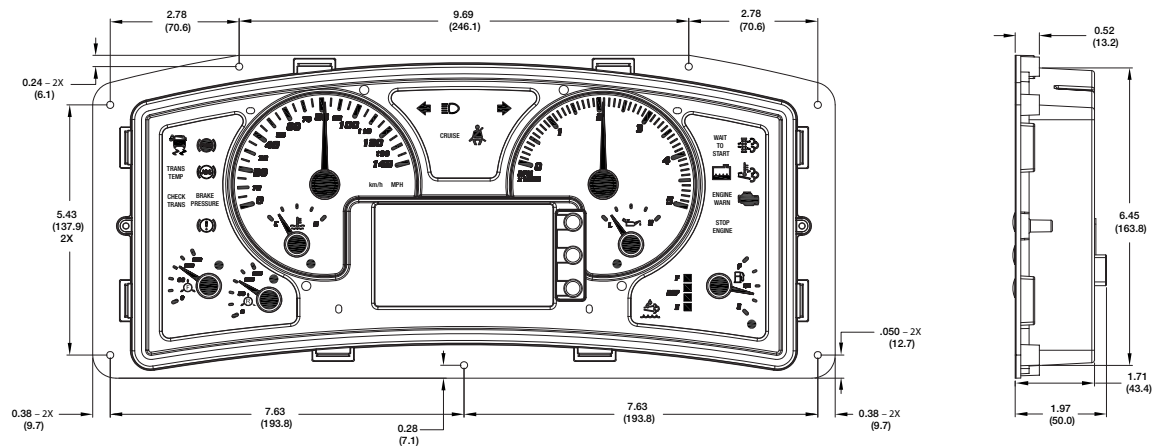
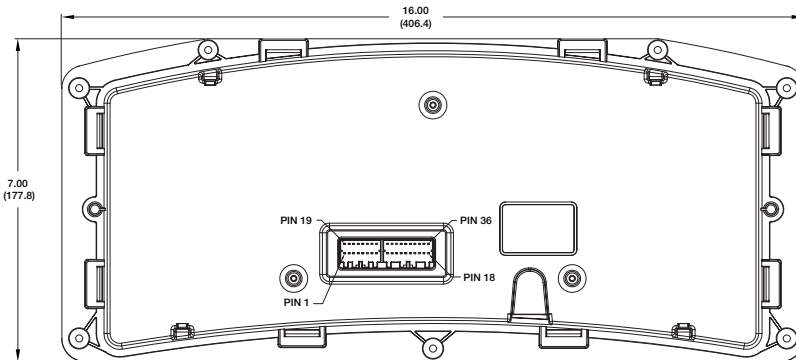
Electrical Characteristics

Operating limits – 9 to 32 VDC, reverse polarity protected
 Operating current – Operating current: 800mA max
 Transient protection – meets or exceeds SAE J1113/11 test pulses
 for 12/24v systems
 ESD protected to +/- 15kV

Communication Ports

1 CAN 2.0B (J1939 standard)

Dimensions



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