Vehicular Instrumentation Systems

World-Class Instrumentation for the Global Vehicle Marketplace

www.ametekvis.com

UIP-MC

Universal Instrument Panel - Message Center

Features

- Heated graphics LCD 340 x 90 monochrome
- Two SAE J1939 CAN data bus
- Optional J1587 data bus
- 7 Gauges with DEF LED bargraph gauge
- 22 LED customizable telltales
- Gauge warning LEDs
- Sealed to IP67 specifications front and rear
- Integral sealed buzzer
- Analog and switched inputs
- Switched outputs
- Two menu navigation buttons
- 9 to 32 volt operation
- Backlit LCD and buttons
- Flexible backlight control
- Supports additional external NGI gauges

Applications

- Commercial trucks
- Cranes, road-building and construction equipment
- Buses, coaches and recreational vehicles
- Earth-moving and mining vehicles
- Utility and emergency vehicles
- Farm and agricultural vehicles
- Stationary engine instrumentation

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

The large, easy-to-read graphics display provides real time data information, diagnostics, fault codes, user set up features, and maintenance requirements. There are 22 LED telltales, along with seven gauge warning LEDs to alert the operator of existing conditions.

One of the seven gauges is a bargraph gauge with four progressive bars that can satisfy the requirements of a DEF gauge. The green bars indicate the current level in 25% increments. Additionally the lowest bar can be changed from green to amber to red at customer specified values to alert the operator of low and critically low conditions.

The cluster collects data from the vehicle J1939 CAN data bus, discrete switch inputs, and analog inputs. One of the J1939 CAN inputs can also be used as a J1587 data bus input. Optional external NGI gauges can be added to the system.

Backlighting color is white, with green, red, amber or blue as optional. UIP-MC provides an optional eyebrow for direct sunlight applications.

UIP-MC is sealed to IP67 specifications both front and rear. Designed to withstand harsh conditions typical of off-road environments, the UIP-MC meets all SAE J1455 and J1113 requirements for vehicular instrumentation.

AMETEK®
VEHICULAR INSTRUMENTATION SYSTEMS

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VIS Vehicular Instrumentation Systems

Specifications

Physical Characteristics

Housing material – black polycarbonate ABS plastic

Connectors – 26-pin Tyco, 34-pin Tyco

Environmental Characteristics

Temperature, humidity, shock, vibration, and salt spray – meets or exceeds SAE # J1455-1994-08

Operational Temperature – -40C to +85C

Electrical Characteristics

Operating limits – 9 to 32 VDC, reverse polarity protected

Transient protection – meets or exceeds SAE #J1455-1994-08

Electrical Outputs

6 Switch to ground – 500 mA

1 Switch to ground – Switch to battery

Electrical Inputs

Battery/ignition – 9 to 32 volts

Operating current – 3 amperes max

Backlighting – variable through dashlight dimmer control, CAN message, or set through menu selection

Discrete inputs – 25; switch to ground, 7 switch to battery

Analog inputs – 2; 0-6400 ohms, or 0 to +5 VDC

Programmable inputs – 3 Analog, Switch to ground, or Switch to battery

Data bus – 2 SAE J1939 CAN, one can be used as SAE J1587

External gauge data – NGI

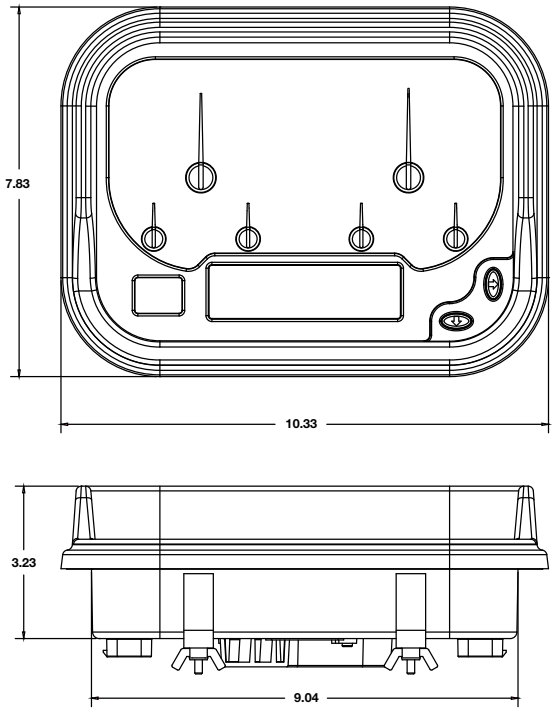
Display Characteristics

Type – 340 x 90 Monochrome, graphics LCD

Viewing Angle – 12:00

Backlight color – White (green, red, amber or blue optional)

Dimensions

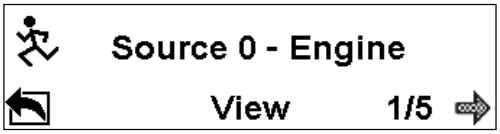


Screen Menus

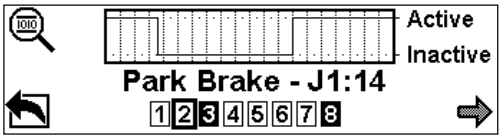
overview

DATA VIEW

MENU - WARNINGS, DIAGNOSTICS, SELF-TEST, SETUP



DIAGNOSTICS



SELF-TEST DIGITAL INPUTS

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