



The ConsuLab MP-1918-1D is a double-sided CAN Bus Multiplex trainer that communicates in J-1939 protocol. Digital and analog inputs and outputs can be activated. Analog signals can be displayed using the J-1939 display. The trainer utilizes the "Moduponent™" design feature which allows unlimited expansion capabilities. This unit is equipped with an integrated electronic fault box containing 12 faults on each side.

#### EDUCATIONAL ADVANTAGES

- The MP-1918-1D Trainer uses SAE J1929 communications protocol to operate a 4 module CAN Bus network , which includes both a DLC and a Deutsch Connector;
- The trainer demonstrates common multiplexing circuit controls via a high speed CAN Bus network;
- Students connect modules and components using included jumper wires;
- The MP-1918-1D can be used as a CAN Bus demonstration trainer, or, using the included comprehensive student lab manual, as a CAN Bus training course;
- Built-in fault insertion can be placed in the trainer for diagnostic training or student evaluation;
- CAN Bus diagnostics can be thought using a DMM and DSO to look at Bus resistance, wake up signal and high speed information packets;
- Diagnostics learned on the MP-1918-1D is easily transferred to a vehicle.

### MAIN FEATURES:

- Double-sided trainer
- Included user manual with theory explanations of CAN Bus, student exercises, schematics, sample scope patterns and check tests
- Includes four (4) modules on each side that replicate heavy vehicle applications including (instrument cluster, input, engine and output modules). Trainer can also be used to instruct basics of CAN Bus automotive.
- Includes digital and analog inputs/outputs
- Each module has test points for individual diagnosis and testing
- J-1939 display on Moduponent panel for observation of real time circuit changes
- Sturdy powder coated metal stand equipped with lockable storage drawers and a UL approved 120VAC/12VDC power supply (w/analog voltmeter and ammeter)
- Jumper wire storage racks mounted to frame
- Stand has two fixed and two lockable casters for easy trainer movement

### INCLUDED COMPONENTS:

#### MODUPONENT MP-1918-01 MASTER PANEL (one per side)

- Electronic fault box with 12 integrated faults and connector (keypad controlled with instructor key)
- Diagnostic test terminals
- Instrument cluster section
- Turn signal switch
- Brake switch
- Hazard switch
- Backup switch
- Headlamp switch
- Power indicator lamp
- Circuit fuses
- Input module section
- Engine brake mode switch
- End of line (termination resistor) #1
- Ground terminals (Black)
- Battery terminals (Red)
- CAN Bus LO terminals (Green)
- CAN Bus HI terminals (Yellow)

#### MODUPONENT MP-1918-02 CAN Bus PANEL (one per side)

- Engine control module section
- Accelerator pedal switch
- CAN Bus junction block
- Output module
- End of line (termination resistor) #2
- Ground terminals (Black)
- Battery terminals (Red)
- CAN Bus LO terminals (Green)
- CAN Bus HI terminals (Yellow)
- Fault box connector

#### MODUPONENT MP-1918-03 REAR LIGHTS PANEL (one per side)

- Rear clearance marker lights
- Positive terminals (Red)
- Right/turn/stop LED lights
- 7-way trailer connector & terminals
- Black, red, green & yellow jumper wires for circuit connections
- Backup light
- License plate light
- Left/turn/stop LED lights
- Ground terminal (Black)

### TECHNICAL INFORMATION

**Dimensions:** 32" (80 cm) W x 56" (140 cm) L x 52" (130 cm) H

**Weight:** 265 lb (120 kg)