



The ConsuLab MP-1918-1S is a single-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.

#### EDUCATIONAL ADVANTAGES

- The MP-1918-1S 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-1918-1S 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 electronic fault box allows fault insertion into circuits for diagnostic training and student comprehension;
- CAN Bus diagnostics can be taught using a DMM and DSO to look at Bus resistance, wake up signal and high speed information packets;
- Diagnostic strategies learned on the MP-1918-1S are easily transferred to a vehicle.

### MAIN FEATURES:

- Single sided trainer with upgrade capacity for a double-sided configuration
- Included user manual with theory explanations of CAN Bus, student exercises, schematics, sample scope patterns and check tests
- Includes four (4) modules 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 (TOP)

- 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 (MIDDLE)

- 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 (BOTTOM)

- 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 terminals (Black)

### TECHNICAL INFORMATION

**Dimensions:** 32" (80 cm) W x 56" (140 cm) L x 68" (170 cm) H / 48" (120 cm) W x 40" (100 cm) L x 74" (185 cm) H (w/package)

**Weight:** 225 lb (102 kg) / 346 lb (157 kg) (w/package)