

Hydraulic Training Systems

Teaching and learning hydraulics in real-time

Plug-and-Play Training Module
Electro-Hydraulic
Control Module
Model number- MF100-EHCM



Today's technicians must be competent to adjust, program and troubleshoot a wide range of electro-hydraulic components.

This training module covers them all:

- Proportional direction and flow control valves.
- PWM amplifiers.
- Linear position feedback sensors.
- Encoders.
- Proportional pressure control valves.
- Pressure transducers – wired and wireless.
- Diagnostics through a CANBUS J1939 reader.
- Joy sticks –
Hall effect, resistive and CANBUS (optional).
- Onboard touchscreen (upgradeable) with impressive animations so students can see component operation in real-time, e.g., see how ramping times change with real-time graphs. See the inside of a proportional valve, through the use of animation, as it operates.

Students will learn:

- Integration of electronics with hydraulics.
- How to troubleshoot electro-hydraulic components with real-time faults – electronics and components.
- How to observe, in real-time, with an oscilloscope (not supplied), the voltages and current of coils.
- To understand inputs and outputs.
- How to change parameters where applicable.
- To understand dither frequency.
- How to identify calibration problems.
- How to understand encoder signals.
- Open and closed-loop circuits.
- To understand the settings of a PWM amplifier.
- Joystick control – ramping and dead-band.
- How to compare tested values with working systems.



Shipping Specifications -

Shipping weight:
(does not include container and packaging)
54 lbs (24.5 kgs)

Shipping dimensions:
31" (79 cm) tall x 23" (58 cm) wide x 12" (30.5 cm) deep

Warranty -

FPTI™ warrants its products against defect in materials or workmanship for a period of two (2) years from date of delivery.

Plug-and-Play training modules attach quickly and easily to any MF102 series training system



All FPTI™ simulators are available for operation at any voltage or frequency

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