



Digital Engine Instrument System Trainer (CPT-110E) is a complete and fully functional simulation of typical aircraft piston engine instrument system. This training set provides hands-on maintenance training while also functioning as a demonstration tool for instructors. It demonstrates the principles of engine sensors & instrument and also can be used for teaching of instrument connection, removal and replacement.

Specifications

Features

- The system combine “aircraft systems instrumentation” and “engine instrumentation”.
- Functional engine monitoring system be connected to engine sensors.
- Provision of engine sensor simulation.
- Instructor’s Panel for fault insertion.
- Training video for teachers

Components

- Smart MFD Screen
- Engine Data Modules
- Analog instruments
 - Fuel Temp/Press Indicator
 - Oil Temp/Press Indicators
- Sensors
 - Oil Temperature Sensor
 - Carburetor Air Temp Sensor
 - Manifold Pressure Sensor
 - Fuel Level Sensor
 - Oil Pressure Sensor
 - Fuel Pressure Sensor
 - Engine RPM Sensor
 - Fuel Flow Sensor
 - Ammeter Shunt

- CHT Thermocouples (Qty 4)
- EGT Thermocouples (Qty 4)
- OAT Sensor
- Inductive sensor
- Aircraft circuit breakers.
- Throttle Lever
- Propeller Lever
- Power
 - Main Power
 - PDF
 - Tachometer
- Contacts:
 - Pitot Heater
 - L/G
 - Taxi Light
- Auxiliary Flight Control Simulation:
 - Aileron Trim
 - Elevator Trim
 - Flap Position
- Electronic Simulation of Sensors:
 - Oil Temperature Manifold Pressure
 - Engine RPM
 - Oil Pressure
 - Fuel Level
 - Fuel Press
- Sender Selector Panel
 - Fuel System
 - Oil System

Example ATA Chapters

- Instrument & Control Panels
- Independent Instruments
- Aural Warning Module R&R
- Efis Cont Panel R&R

Documentation

- User's Manual
- Study Guide
- Instructor's Guide
- Components Diagrams

Power Specs

- Electrical box
- Residual current device
- Emergency Button
- Energy Signal Lamp
- 110 VAC 60 Hz or 220-240 VAC 50 Hz

Others

- GPS receiver / antenna
- Aircraft circuit breakers.
- Throttle lever.