Portable Calibration Training System

Model: 616-000

Process control systems maintain precise control of liquid and gas variables, such as liquid level, flow rate, pressure, temperature, and pH level. These multifaceted systems are a critical part of major industries like power generation, refineries, petrochemicals, chemical manufacturing, pharmaceuticals, biotechnology, and food processing and bottling.

DAC Worldwide's Portable Calibration Training System (616-000) is a portable tabletop instrument calibration workstation that allows for convenient testing and calibration of instruments, process controllers, and other instrumentation and process control-related components.

The Portable Calibration Training System includes a pneumatic calibration and test panel with test gauges and regulators, as well as an electrical calibration and test panel, including digital meters, conversion resistors, and power supply connections. The panels are mounted on a free-standing frame assembly. Additional frame assemblies can be added to mount optional strip chart recorders, panel-mounted calibration equipment, and rack-mounted instruments.

The Portable Calibration Training System can be tethered directly to related process control training equipment through electrical and pneumatic "free lines" or used as a stand-alone portable calibration work area.

The system requires the #600-006A Economy Standard Test and Calibration Equipment Package. It can also be used with the optional #603-000 4-Variable Advanced Process Control Training System. The system includes the following: circuit breaker with pilot light, digital ammeter, digital voltmeter, power supply, conversion resistors, two

air supply regulators, test gauge, five 110V receptacles, instrument mounting stanchion, and #616-500 Use/Exercise Guide.

FEATURES & SPECIFICATIONS

- Service requirement: electric - 110/230 VAC, 50/60 Hz; instrument air supply.

- Power circuit breaker with pilot light.

- Digital ammeter, 0-200 mA DC.

- Digital voltmeter, 0-200 VDC.

- 24-Volt DC regulated power supply, 2.4 A.

- Variable output power supply, 1.5 - 35 VDC, 1 A.

- Conversion resistors, 100 ohm and 250 ohm.

- Precision air supply regulator with 3.5", 0-30 PSI gauge, 0.5 percent accuracy with quick-disconnect tubing connections.

- Precision air supply regulator with 3.5", 0-60 PSI gauge, 0.5 percent accuracy with quick-disconnect tubing connections.

- Test gauge, 3.5" inch, 0-30 psi, 0.5 percent accuracy with quick-disconnect tubing connection.

- Five 110 VAC duplex receptacles, ground fault protected.

- Provision for electrical and pneumatic free line connections, allowing direct connection to related process control training equipment.

- Welded steel instrument mounting stanchion for mounting D/P cells and pressure transmitters.

- Welded aluminum support structure with rubber feet.

- Powder-coated surfaces throughout.

- Connecting tubing, 1/4in. diameter, (25').

- Tubing cutter.

- Eight (8) tubing fittings.

- Eighteen (18) banana jack patch cords.

- Crating for shipment via motor freight.

PRODUCT DIMENSIONS

- **Product Dimensions**
  (L x W x H)
  14in. x 20in. x 23in. (350 x 510 x 580 mm)
  50lbs. (23kg)

- **Shipping Dimensions**
  70lbs. (32kg)

OPTIONS

- #600-006A - Test and Calibration Package, Hand-Held, Economy (required)

- #581-007 - Instrumentation, 5th Ed.

- #600-110 - Resistance Decade Box w/Leads

- #600-111 - Dry Well Temperature Calibrator

- #610-001 - Strip Chart Recorder, Benchtop

- #910 - Rolling Rack Assembly

- #945 - Sample Panel Support Assembly

- #585-007 - Textbook, "Process Plant Instrumentation" (Simons).

- #600-205 - Digital multimeter/process calibrator (alternate calibration instrument).

- #600-301 - Instrument technician tool kit, basic.

- #616-004 - Double frame/baseplate assembly upgrade, with one blank 19in. rack panel and one lock box accessory panel.

- #616-007 - Electrical connection tether (allows connection to process trainer free lines via multi-pin connector).

- #616-500 - Use Guide (additional).

- #616-PAC - Calibration Workstation, Portable, Quick-Start Package (includes: 616-PAC, 600-006A, 600-051, 600-111, 945, 600-301, 905W, 581-007)

- #905W - Folding-leg bench with laminated wood top, and lockable storage drawer.