

Flow Measurement Training System Plus



Model: 619-PAC

DAC Worldwide's Flow Measurement Training System Plus (619-PAC) is a large-scale, working flow-related fluid process system, which allows for hands-on training on the installation, calibration and maintenance of process field instruments within a controlled working environment. The device, coupled with a comprehensive student manual, creates a complete, self-paced learning system that reflects realistic industrial and commercial applications.

This self-contained training system provides for complete, realistic courses in instrumentation control and calibration within a heavy-duty learning system. Useful within industrial training programs or in an educational setting, the Flow Measurement Training System Plus will help make this fundamental part of instrumentation maintenance training more memorable and effective.

The complete package includes a Flow Measurement Training System (619), a Differential Pressure Transmitter (600-056), a 3-Valve Manifold (600-059), and a Differential Pressure Gauge, 0-400" H₂O (600-105).

Practice Hands-On Process Control Skills for Various Applications

The basic instrumentation training system workstation includes a 15-gallon reservoir and a 3/4in. pipe diameter process loop with replaceable spool section. Three common flow metering devices that are mounted in pipe spools are also included. An "open architecture" allows for installation of optional instruments of various designs from a

variety of manufacturers within the removable spool section. Using an optional component package, the product can be used for studies relating to pressure drop within piping systems and through piping components.

The workstation utilizes a 14-gauge welded steel frame, with four casters and two (2) support shelves. It features T-slotted aluminum instrument stanchion mounting rails, and clear PVC piping and fittings throughout. Some of the components the training system possesses include a brass metered ball valve, a variable-area flow meter, and three different flowmeter spools: a pitot tube, orifice plate, and Venturi tube. Additional panel-mounted components include a pilot light, on/off switch, pump control switch with contacts for remote operation, GFI circuit protection, fuses, process meter with mA input, pressure regulator, pressure gauge, and air quick-connect couplings.

Hands-On Exercises and Learning Activities Lead to Realistic Results

DAC Worldwide's Flow Measurement Training System Plus also features hands-on exercises and learning activities that focus more on results and less on secondary academic background information. This comprehensive training system offers content in instrumentation principles, with individual learning activities provided in a self-paced or instructor-led format. The integrated course features multiple activities, all of which include background information on the topic, hands-on experiments, and related review questions.

Student Training Manual Included to Enhance Learning

A copy of this course's Student Training Manual is included with this training system. Sourced from the Exercises and Learning Activities, the Student Training Manual takes the technical content contained in the learning objectives, and combines it into one perfectly-bound book. If you would like to inquire about purchasing additional Student Training Manuals for your program, please contact your local DAC Worldwide Representative for more information.

FEATURES & SPECIFICATIONS

- Welded steel frame workstation using 14-gauge, 1-1/2" x 1-1/2" tube, and incorporating two (2) 14-gauge support shelves
- Four (4) casters, two (2) with locks
- T-slotted aluminum instrument stanchion mounting rails
- Clear 3/4" diameter PVC piping and fittings throughout
- Brass metered ball valve
- Variable-area flow meter
- Removable 24" pipe spool allowing for installation of standard flow apparatus, as well as optional flow instruments
- Pitot tube flowmeter spool with tubing quick-connect fittings
- Orifice plate flowmeter spool, with tubing quick-connect fittings
- Venturi tube flowmeter spool, with tubing quick-connect fittings

- Pipe spool storage rack
- Control/power assembly including 19" rack-mounted control panel, steel support frame, and electrical enclosure
- Panel-mounted components including; pilot light, on/off switch, pump control switch with contacts for remote operation, GFI circuit protection, fuses, process meter with mA input, pressure regulator, pressure gauge and air quick-connect couplings
- Pump motor starter
- 24 VDC power supply with banana jack connections
- Primary reservoir, 15 gallon capacity
- Pipe stanchion allowing for attachment of differential pressure transmitters and pressure transmitters at varying locations, and heights
- High-durability, powder coated surfaces throughout
- Crating for shipment via motor freight

Includes:

- 619 - Flow Measurement Training System
- 600-056 - Differential Pressure Transmitter
- 600-059 - 3-Valve Manifold
- 600-105 - Differential Pressure Gauge, 0-400" H2O

OPTIONS

- #581-007 - Instrumentation, 5th Ed.
- #600-006A - Test and Calibration Package, Hand-Held, Economy
- #910 - Rolling Rack Assembly
- #600-036 - Magnetic flow measurement assembly/transmitter (Rosemount)
- #600-051 - Strip chart recorder, 2-pen (Yokogawa, SR 1000) (additional)
- #600-066 - Supplemental PID controller and I/P converter panel
- #619-500 - Additional Use/Exercise Guide
- #940-001 - Control Module Base Assembly
- #940F - Control Module Assembly Frame (for supplemental panels)

PRODUCT DIMENSIONS

- **Product Dimensions**

(L x W x H)

63in. x 24in. x 40in. (1600 x 600 x 1275 mm)

255lbs. (116kg)

- **Shipping Dimensions**

325lbs. (147kg)

ACCESSORIES

- 100', 1/4in. Diameter instrument connection tubing of two colors
- Six (6) Quick-disconnect nipples
- Six (6) Tubing tees
- Six (6) Tubing couplers
- Three (3) Orifice Plates
- Use/Exercise Guide

UTILITIES

- 110 VAC, 120V/60Hz/1ph
- Alternate voltage, phase and cycle are possible

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