

**PMI ADVANCED
AUTOMATED HYDRAULIC PRESSURE
CONTROL SYSTEM WITH ENCODER**

APCS-H-2K-ENC



Not just Products... Solutions !

DESCRIPTION

The PMI Automated Pressure Control System with encoder provides precise pressure generation and control from atmospheric pressure upto 2000 PSI. The APCS is completely microprocessor controlled and fully automated. The system allows user to define multiple target pressures, holding times, and pressurization rates. The APCS can be incorporated into an already existing larger system, or operate independently.

HARDWARE

The Automated Pressure Control System - Hydraulic System comprises a motorized pressure generator, pressure gauges, high-pressure motorized valves, and a pressure controller. The DC motor driven piston pressure generator produces up to 2,000 PSI output. A highly accurate pressure transducer monitors system pressure and provides feedback.

The APCS - Hydraulic System has two control modes: Multi-target Pressure Control & Pressurization Rate Control (Control algorithms are based on PID control). Multi-target Pressure Control allows the operator to reach the targeted pressure quickly and smoothly, while minimizing overshoot. Additionally, multi-target control holds the designated pressure for a specified length of time. The Pressurization Rate Control provides operator control of the pressurization rate at which the target is approached.

APPLICATIONS

The APCS has applications in many industries. The flexible design of the APCS, combined with the ability of Advanced Pressure Products to customize all aspects of the configuration, make the APCS suitable in almost any pressure or flow control situation. Examples of applications include:

- Burst Tests
- Battery Burst Tests,
- Fatigue Tests
- Leak Tests
- High Pressure Chamber Fatigue Tests
- Multi-Gauge Tests and Calibration
- Rupture Disc Tests
- Supercritical Fluid Extraction

FEATURES

- Highly accurate pressure transducer monitors system pressure and provides feedback User-defined multiple target pressures, holding times, dwell times, and pressurization rates
- Multi-level, fail-safe system provides over-pressurization protection
- Windows-based software handles all control, measurement, data collection, and report generation; complete manual control also possible
- Compatible with Windows 98 and higher
- Real-time graphical test display depicts testing status and results throughout operation
- Multiple pressure outlet ports available
- Automatic pressure generator refill for high volume situations
- Customized report formats available
- Minimal maintenance required

SPECIFICATIONS

- Working Fluid: H₂O, Oil, Alcohol
- Pressure Range: 0-2,000 PSI
- Pressure Transducer: 0-2,000 psi (Accuracy: Up to 0.1 % FS)
- System Resolution: 1/65536
- System Control Accuracy: +/- 0.2 % FS
- Power Requirements: 110 VAC, 60 Hz (220 VAC, 50Hz optional)
- Dimensions: 51" H x 28.5" W x 26" D
- Weight: 300 lbs

SALES & SERVICE

Our sales team is dedicated to helping our customers find which machine is right for their situation. We also offer custom machines for customers with unique needs. To find out what we can do for you, contact us. We are committed to customer support including specific service products, short response times & customer specific solutions. To quickly & flexibly meet our customer's requirement, we offer a comprehensive range of services.



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today !*



Disclaimer : Other specifications of this product are also available. Specifications subject to change without notice. Design subject to change without notice.

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