

# WMS-350

## WATER MEASUREMENT SYSTEM

The Interface Catheter Solutions Model WMS-350 is a bench-top measurement system designed specifically for catheter balloons. The system offers a non-contact solution to the typical problems encountered in the dimensional measurement of catheter balloons. By integrating the holding, pressurizing, and movement of the balloon with cutting edge, non-contact measurement technologies, reliable and accurate measurements can be made. There is no variability and inaccuracy caused by contact of the measurement device on the soft and compliant balloon.



### KEY FEATURES

- Bench-top measurement system designed specifically for catheter balloons
- Offers a non-contact solution to the typical problems encountered in the dimensional measurement of catheter balloons
- By integrating the holding, pressurizing, and movement of the balloon with cutting-edge, non-contact measurement technologies, reliable and accurate measurements can be made
- No variability or inaccuracy is caused by contact of the measurement device with the soft and compliant balloon
- Eliminates errors associated with manual contact measurements, as well as variations due to operator skills
- Accommodates a wide range of balloon diameters and lengths

### SPECIFICATIONS

**Dimensions:** 28.5" W x 17" D x 20" H (73 cm W x 44 cm D x 51 cm H)

**Weight:** 19.5 Kg (43 Lbs)

**Electrical Power:** 100 - 110 / 220 - 240 VAC +/- 10% 50 - 60 Hz < 500 W

**Fuse Rating:** (LMS-100C) 3.5 A T 250 VAC at 220 - 240 VAC  
5 A T 250 VAC at 100 - 110 VAC

**Air Supply:** 80 - 110 (0.7 M, Pa) dry filtered air.

**Output Pressure Connector:** Compression Fitting with Collet and Mandrel

**Input N2 Pressure:** 40 Bar (Approximately 580 PSI)

**Output N2 Pressure Range:** 0 - 34 Bar (0 to 1000 psi)

**Pressure Accuracy:** .5 Bar

**Pressure Resolution:** 0.1 Bar

**Water Bath Volume:** 2 liters - de-ionized water

**Water Temperature:** Ambient to 50° C (Internally limited to 73° C)

**Axial Movement Range:** 0 - 350 mm

**Axial Movement Accuracy:** +/- 1 mm

**Axial Movement Speed:** 0 - 200 mm/sec

**Axial Acceleration:** 0.1 to 1000 mm/s/s

**Axial Deceleration:** 0.1 to 1000 mm/s/s

**Environmental Operating:** Indoor use only

Altitude -500 to 2000 meters

Temperature 5 - 40 degrees °C

**Relative Humidity:** 10 - 80 % non-condensing to 40 °C

**Pollution Category Degree:** 2

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The Model WMS-350 system consists of three key components with ancillary devices attached. Together the modules provide the most accurate and reliable balloon measurement system in the industry today.

### LMS-100C

The System Controller Unit provides all interfacing with the non-contact measurement system, the Microsoft Windows™ personal computer, and the optional Model PT-3070 Hydraulic Pressure Tester. The controller employs microprocessor controlled positioning motors, temperature control for a heated water bath and gas pressure generation.

### WMS-350A

The Axial Motion Drive mounts to a main base plate and straddles the measurement area of the non-contact measurement system. Holding and movement fixtures described below mount to the axial movement platform on top of the Axial Motion Drive. The unit accepts input commands and provides positional feedback to the LMS-100C System Controller. It also acts as a conduit and control for the clamping pressure used with one of the fixtures.

### WMS-250, 350, 350/75

The Heated Water Bath is the holding and movement fixture. As the name implies, the fixture holds up to two liters of water and incorporates a long heater cartridge along the length of the bath at the bottom. A balloon holding arm with sealing clamp retracts from the top of the bath and can hold a balloon or other work piece of up to twelve inches in length. The sides of the fixture are of optical grade glass and allow the laser or LED light to pass. The heater cartridge is powered and controlled by the System Controller Unit. The balloon is inflated with a water media controlled by the Model PT-3070, which receives commands from the System Controller. Two models of water bath are available:

WMS-350, 30 mm width, 250 mm balloon length. PN 733033

WMS-350/75, 60 mm width, 250 balloon length. PN 733042