

# Accustat™ - Room Pressure Monitors



Accustat™-ST/BMS/PR



Accustat™-P2 Portable

## Cleanroom and Isolation Room Pressure Monitors

Accurate pressurization is a vital step in creating compliant, controlled and safe medical isolation environments. The Accustat™ room pressure monitor is designed specifically for monitoring negative or positive pressure differentials in hospitals and critical care applications where reliability matters.

A large backlit digital display identifies instantaneous pressure readings, accurate to within .001" WG, with audible and visual alarms identifying unsatisfactory conditions. The Accustat™ utilizes a highly sensitive pressure transducer, thus eliminating the varying inconsistencies of "airflow" monitors.

Along with satisfying industry compliance, reliably maintaining and monitoring a positive or negative pressurization environment ensures the safety of health care professionals and protects processes, products and equipment.

### Accustat™-ST

Easily installed outside isolation rooms, the ST displays positive and negative room pressure in inches or pascal and provides audible and visual alarms.

### Accustat™-BMS

In addition to the ST features, the BMS directly interfaces with the building management system through a 4-20 mA analog output.

### Accustat™-PR

With all of the standard Accustat™ features, the PR is used in combination with the ExC7 and Ecophan isolation room fan filter unit to automatically maintain client programmed room pressurization set points.

### Accustat™-P2

The P2 is a portable room pressure monitor and housed in a durable carry case. The P2 offers 48 hours of operation on a single charge.



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## SPECIFICATIONS (All Models)

### Electrical Data:

Operating power: 12V  
Minimum/maximum voltage: 12V to 16V  
Current Draw: 100 mA  
Maximum draw: <2W  
(P2 Battery) 7.2VDC Ni-MH type 2200mAh

### Monitoring Data:

Microswitch pressure transducer  
Pressure range: -0.100 to +0.100 inches water  
Display update: 1.0 second  
Maximum over pressure: 5.0 psi  
Accuracy of reading:  $\pm 1\%$  F.S.

### Operation Data:

Alarm LED: green normal, red alarm mode  
Audible alarm: one-minute delay  
Alarm setpoint: user determined adjusted from front panel  
Alarm calibration: from front panel  
Accuracy of alarm output:  $\pm 1\%$  of setpoint  
Standard range:  $\pm 0.1$  inches of water (or  $\pm 25$  Pascals)  
Resolution: 0.001" of water (or 0.1 Pascals)  
Sampling medium: Air or non-corrosive, non-explosive gas

### Accustat™ BMS Electrical Outputs:

Alarm: One SPDT relay can be set over range of -.05 to +.05 inches water. Contacts can be set for fail-safe operation (i.e. contact closed power loss.) Alarm output has built-in 1-minute delay, both red LED and piezo alarm.  
Remote: 4-20 mA, Standard Range 0-10 volts  
-.100 to +.100 inches water  
7 mA + -.100 inches water  
12 mA + .000 inches water  
17 mA + .100 inches water

### Mechanical Data:

LCD display: 1 line  
LCD character height: 0.5"  
Cabinet: stainless steel  
ST/BMS/PR Dimensions: 7.367"(W) x 3.25"(H) x 2.25"(D) / Weight - 22 oz.  
BMS Dimensions: 7.42" (W) x 4.00"(H) x 9.60" (L) / Weight - 5 lbs  
ST/BMS/PR Mounting : Surface/wall mount  
Operating temperature: 55-105°F (13°C to 41°C)  
Operating humidity: 10% to 94% RH non-condensing  
Pressure range: -0.001 to + 0.999WG  
Sampling hole requirement: 1/4 inch hole needed for sampling tube into room, ambient sensed directly from monitor.

## ITEM #

ACC-022 – Accustat-ST  
ACBMS-002 – Accustat-BMS  
AC-PR – Accustat-PR  
ACC-022-INTL – Accustat-ST International Power

ACC-BMS-002 – Accustat-BMS International Power  
ACC-PR-INTL – Accustat-PR International Power  
ACP2-200 – Accustat Portable



DIVISIONS



ISO 9001:2015 CERTIFIED COMPANY

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