



# PAMB7 Pressure Indicator



## ULTRA LOW DRIFT DUAL PRESSURE TRANSFER STANDARD

The DMA PAMB7 dual pressure transfer standard is a near primary standard laboratory instrument capable of accurate, continuous reading of atmospheric range pressures.

The PAMB7 is easy and fast to use by both experts and first time users. All pressures and correlated air data functions are simultaneously displayed in selectable engineering units.

Reading accuracy is achieved through the use of vibrating element pressure sensors, combined with precise temperature measurements, humidity control and low heat generation.

Ultra high pressure resolution is useful to check stabilization in pressure controllers.

Pressure readings are transmitted via RS232 to enable the use in ATE equipment.

Selection of transducers used, combined with special characterization and multiple transducer comparison techniques gives high accuracy ( $\pm 2$  feet at s.l.) and low drift.

The alphanumeric and graphic display with time history is useful for accurate testing.

## FEATURES

- Accuracy  $\pm 2$  ft at sea level
- Ultra low drift
- Static and dynamic or total pressures simultaneously displayed
- Simultaneous display of air data units related to pressures
- Ultra high sensitivity (0.2 Pa for static pressure, 0.5 Pa for total pressure)
- Ultra high sensitivity in air data units (0.1 feet or 0.01 knots)
- Time history on graphical display; time and pressure intervals are selectable
- Three vibrating cylinder transducers, one of them dedicated to check drift

## CONTROLS

The user can select engineering units for pressure, altitude and airspeed display. In graphical mode it is possible to select time basis, center value, altitude, static or pitot pressures and restart.

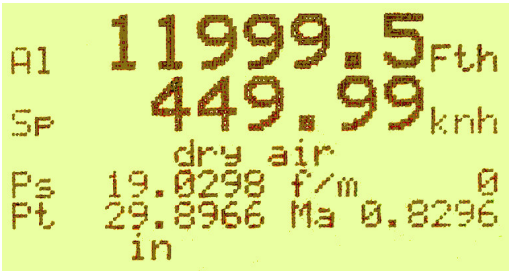
QNH reading, parameter setting, calibration etc. are controlled via keyboard.

## CALIBRATION

Calibration can be performed quickly and easily by software change of four coefficients. No mechanical adjustments are required.

Calibration factors are password protected. Suggested calibration interval: one year

## ALPHANUMERIC DISPLAY



## GRAPHIC DISPLAY



Parameter	Units	Resolution
Static pressure	hPa, Pa, mmHg, psi, inHg	0.0001 inHg
Pitot pressure	hPa, Pa, mmHg, psi, inHg	0.0001 inHg
Altitude	feet, meter, cm	0.1 ft
Airspeed	knots, Miles/h, Km/h	0.01 Kts

## STANDARD SPECIFICATIONS

### PERFORMANCES

#### Ranges:

- 1<sup>st</sup> line: 0 to 38.4 inHg (1300 hPa)
- 2<sup>nd</sup> line: 0 to 76.8 inHg (2600 hPa)
- 0 to 103.3 inHg (3500 hPa) (option)

#### Accuracy (\*):

- 0.006 % F.S.
- 1<sup>st</sup> line: ± 2 feet @ s.l.
- ± 4 feet @ 30000 feet
- ± 7 feet @ 50000 feet
- ± 0.002 inHg @ 30 inHg
- ± 0.001 inHg @ 3.5 inHg
- 2<sup>nd</sup> line: ± 0.5 knots @ 50 knots
- ± 0.1 knots @ 350 knots
- ± 0.05 knots @ >600 knots

Mach no. < 0.002

(\* ) including linearity, hysteresis, repeatability, temperature and humidity error

#### Stability (\*):

0.005 % per 12 months (static line)

(\* ) can be verified with multiple transducer comparison technique

### CALIBRATION:

One year interval, performed using software, with password protection

### DISPLAY AND KEYPAD

Alphanumeric and graphic LCD backlit display Keypad with numeric entry for calibration values, pressure interval, time interval, password etc. and function keys for measure units, calibration, parameter setting etc.

### PHYSICAL SPECIFICATIONS

Weight: 9.5 lbs (4.3 kg)  
 Dimensions: 4.5" x 10" x 12" (115 x 250 x 305 mm)  
 Rack size: 42 TE, 2 U

### POWER SUPPLY

110 to 240 Vac  
 40 to 400 Hz

### REMOTE COMMUNICATION

Serial RS232 C  
 GP-IB (option)

Note: --- Specifications subject to change ---



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Representative