



# D.MARCHIORI

## 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 consequent to 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, combined with special characterization and multiple transducer comparison technique grants high accuracy ( $\pm 2$  feet at s.l.) and low drift.

Alphanumeric and graphic display with time history are 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)
- 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.

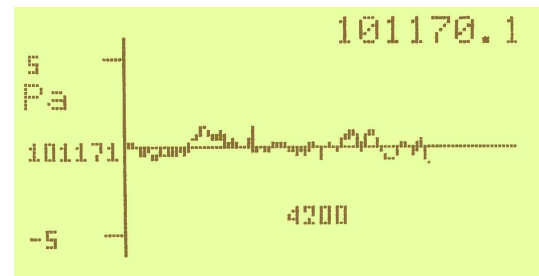
### CALIBRATION

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



## STANDARD SPECIFICATIONS

### PERFORMANCES

#### Ranges:

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

#### Accuracy (\*):

- 0.006 % F.S.
- 1<sup>st</sup> line: ± 2 feet @ s.l.
- 2<sup>nd</sup> line: ± 0.5 knots @ 50 knots
- ± 0.1 knots @ > 500 knots
- Mach no. < 0.002

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

#### Resolution:

- 1<sup>st</sup> line: 0.2 Pa
- 0.0001 in Hg
- 2<sup>nd</sup> line: 0.5 Pa
- 0.0001 in Hg

#### Stability (\*):

- 0.005 % per 6 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: 4.3 kg (9.5 lbs)  
Dimensions: 4.5" x 10" x 12"  
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 without notice---



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