

PAMB6 Pressure Indicator



ULTRA LOW DRIFT DUAL PRESSURE TRANSFER STANDARD

The DMA PAMB6 dual pressure transfer standard is a near primary standard laboratory instrument capable of accurate, continuous reading of atmospheric range pressures.

The PAMB6 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 grants high accuracy (± 2 feet at s.l.) and low drift.

Alphanumeric and graphic display with time history are useful for accurate testing.

FEATURES

- Accuracy ± 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
- Two vibrating cylinder transducers

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.

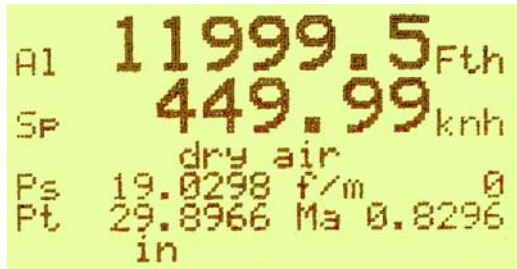
CALIBRATION

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	0.2 Pa
Pitot pressure	hPa, Pa, mmHg, psi, inHg	0.5 Pa
Altitude	feet, meter, cm	0.1 ft
Airspeed	knots, Miles/h, Km/h	0.01 Kts

STANDARD SPECIFICATIONS

PERFORMANCES

Ranges:

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

Accuracy (*):

- 0.006 % F.S.
- 1st line: ± 2 feet @ s.l.
± 4 feet @ 30000 feet
± 7 feet @ 50000 feet
± 0.002 inHg @ 30 inHg
± 0.001 inHg @ 3.5 inHg
- 2nd 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 % f.s. per year (static line)

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 ---