Committing to the future

POCKET PROs

Ultra-Portable Test & Measurement Instruments

For more information:
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Distributor:

· 50 YEARS OF TESTO
· More innovative than ever
· 50 innovations in the anniversary year
INNOVATION 2007

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Not responsible for typographical errors.

July 2007

Air Flow • IR • Temperature • Humidity • Pressure – Flow
Absolute Pressure • Material Moisture • Light • rpm

Introducing… the NEW POCKET PROs

410-1 410-2 460 510 511 540 606-1 606-2 610 810

Measuring instruments for heating, air conditioning and ventilation

Testo, the leading innovator of portable measurement technology, introduces a new line of rugged, pocket-sized measuring instruments always at the ready for everyday use.

Sensors which fulfill the toughest demands, such as Testo's own patented humidity sensor, guarantee reliable and stable results.

Measurements:

- Velocity, temperature, humidity
- rpm
- Differential pressure
- Absolute pressure
- Light intensity
- Material moisture, air humidity and temperature
- Air humidity and temperature
- Air temperature and infrared surface temperature

Each meter is designed to go to work with you and features:

- Wrist strap
- Belt clip
- Bright backlit display
- Auto-OFF function
- Sleek cover that protects the meter and looks good too!

Handy, professional, HVAC/R meters that are just the right size and price for your pocket!

Tough enough for daily use like quick spot checking or fast reporting on temperature, humidity, air velocity, plus pressure, light, rpm and moisture.

Professional Technology in a Small Package!

From sales, to installation, to service...

Measure your way to higher profits!

Some tools are only meant for installation work, others just for service and rarely do you find one that is helpful with sales. **Testo's Pocket PROs are the everyday solution for all three: Sales – Installation - Service.** We call them the PROs because they offer **powerful technology in a compact package.**

Everywhere you go on the job take a Pocket PRO with you. As you transition from sales to installation to service the Pocket PROs do too.

You need testo's Pocket PROs for sales.

Quickly test conditions to determine a customer's need for system upgrades and retrofits, which will provide better comfort and more energy efficient systems.

Use testo's Pocket PROs for installation.

Ensure the systems operate as designed. A tested and verified installation helps minimize the number of callbacks. Testo's Pocket PROs are reliable and rugged enough to use everyday.

Whether you buy eight meters or just one, you'll be using it to measure your way to higher profits!

Use testo's Pocket PROs for service.

Quickly diagnose air distribution and balancing problems, make the necessary adjustments, then verify performance.

How many times a day, a week or a month do you have to be all three things to your customer. - the expert service technician, the competent installation pro or the knowledgeable salesperson? The Pocket PROs let you wear all three hats with ease.

Use a Pocket PRO to help back up your estimates with hard numbers and clinch that sale. Use a Pocket PRO to help diagnose, and maintain the equipment and address the comfort challenges that HVACR professionals face daily.

For the Pocket PRO application chart see page 15

testo 410-1/2

Velocity, Temperature and Humidity

Eliminate air stratification and drafts with this handy balancing tool (-1). And compare airflow quality against acceptable comfort guidelines (-2).

Features:

- Integrated velocity/temperature measurement with 1.5" vane
- Timed average calculation
- Windchill calculation for outdoor applications
- HOLD/MAX/MIN

Technical data:

Velocity	
Measuring range:	80 to 4000 fpm
Resolution:	1 fpm
Accuracy:	± (40 fpm + 2% of rdg.)
Units:	m/s, km/h, fpm, mph, knots, perceived temperature °C/°F (windchill), Beaufort

Temperature	
Measuring range:	14 to 122 °F
Resolution:	0.1 °F
Accuracy:	± 0.9 °F
Units:	°C/°F

Humidity (testo 410-2 only)	
Measuring range:	0 to100 %rH
Resolution:	0.1 %rH
Accuracy:	± 2.5 %rH (5 to 95 %rH)
Units:	%rH, wet bulb, dewpoint
Oper. temp.:	14 to 122 °F
Battery type:	Alkaline (2 x AAA)
Battery life:	testo 410-1: 100 hrs. testo 410-2: 60 hrs. (average, without backlit display)
Dimensions (incl. protective cap):	5 x 1.7 x 1 inches

410-1 Order no. 0560 4101 • 410-2 Order no. 0560 4102

testo 460

rpm Meter

Verify fan and motor speeds with manufacturers' specifications for optimum airflow.

Features:

- Optical rpm measurement with LED sighting
- MAX/MIN function

Technical data:

Measuring range:	100 to 29,999 rpm
Resolution:	0.1 rpm (100 to 999.9 rpm) 1 rpm (1,000 to 29,999 rpm)
Accuracy:	± (0.02 % of rdg + 1 digit)
Units:	rpm, rps
Measuring rate:	0.5 sec.
Oper. temp.:	32 to 120 °F
Battery type:	Alkaline (2 x AAA)
Battery life:	20 hrs. (average, without backlit display)
Dimensions (incl. protective cap):	4.5 x 1.7 x 1 inches

Order no. 0560 0460

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testo 510

Differential Pressure and Velocity

Perform several diagnostic tests with this single handy meter including total external static pressure (TESP) and differential pressure, plus duct velocities and manifold pressures.

Features:

- Easily select from 10 units of measure
- Temperature compensation
- Magnetic back for hands-free use
- Pitot tube for air flow (optional)
- Air density compensation

Technical data:

Pressure

Measuring range:	± 40" H_2O
Resolution:	0.01" H_2O
Accuracy:	± 0.01" H_2O (0 to 0.12" H_2O) ± 0.02" H_2O (0.13 to 0.4" H_2O) ± (0.04" H_2O +1.5% of rdg.) (0.41" H_2O to 40" H_2O)
Units:	hPa, mbar, Pa, mmH_2O, mmHg, inH_2O, inHg, psi
Air velocity:	m/s, fpm (when used with optional hose and pitot tube)
Oper. temp.:	32 to 122 °F
Battery type:	Alkaline (2 x AAA)
Battery life:	50 hrs. (average, without backlit display)
Dimensions (incl. protective cap):	4.5 x 1.7 x 1 inches

Order no. 0560 0510

testo 511

Absolute Pressure

Quickly performs pressurization risk assessments for combustion air zones as well as room to room pressurization tests without running a reference hose.

Features:

- Measures absolute pressure
- Measures altitude
- Calculates barometric pressure
- Highly accurate

Technical data:

Pressure

Measuring range:	9 mmHg to 35 mmHg
Resolution:	0.001 mmHg
Accuracy:	0.01 mmHg
Units:	hPa, mbar, Pa, mmH_2O, mmHg, inH_2O, inHg, psi,
Altitude:	m, ft (calculated via absolute pressure)
Measuring rate:	0.5 sec.
Oper. temp.:	32 to 122 °F
Battery type:	Alkaline (2 x AAA)
Battery life:	200 hrs. (average, without backlit display)
Dimensions (incl. protective cap):	4.5 x 1.7 x 1 inches

Order no. 0560 0511

testo 540

Light Meter

Measure light intensity to address comfort and fatigue concerns which affect productivity and safety.

Features:

- Sensor is as sensitive to light as your eye
- Hold function for easy readouts
- MAX/MIN function

Technical data:

Measuring range:	0 to 99,999 Lux 1 Lux (0 to19,999 Lux) 10 Lux (20,000 to 99,999 Lux)
Accuracy:	± 3% (compared to reference)
Units:	Lux, Footcandle
Oper. temp.:	32 to 122 °F
Battery type:	Alkaline (2 x AAA)
Battery life:	200 hrs. (average, without backlit display)
Dimensions (incl. protective cap):	5 x 1.7 x 1 inches

Order no. 0560 0540

testo 606-1/2

Material Moisture, Air Humidity and Temperature

Monitor material moisture to predict drying times, ensure construction best practices and verify water damage.

Features:

- Stored characteristic profiles for woods like beech, spruce, larch, oak, pine and maple
- Stored characteristic profiles for building materials like cement screed, concrete, plaster, anhydrite screed, cement mortar, lime, mortar and bricks
- Hold function for easy readouts
- Self-test function

Technical data:

Material moisture	
Measuring range:	0 to 90%
Resolution:	0.1
Accuracy:	± 1% (conductivity)
Measuring rate:	0.5 sec.
Air humidity	**(606-2 only)**
Measuring range:	0 to 100%rH
Resolution:	0.1%rH
Accuracy:	± 2.5%rH (5 to 95%rF)
Units:	%rH, wet bulb, dewpoint
Measuring rate:	0.5 sec.
Air temperature	**(606-2 only)**
Measuring range:	14 to 122°F
Resolution:	0.1°F
Accuracy:	± 0.9 °F
Units:	°C/°F
Measuring rate:	0.5 sec.
Oper. temp.:	14 to 122 °F
Battery type:	Alkaline (2 x AAA)
Battery life:	606-1: 200 hrs., 606-2: 130 hrs. (average, without backlit display)
Dimensions (incl. protective cap):	4.5 x 1.7 x 1 inches

606-1 Order no. 0560 6060 • 606-2 Order no. 0560 6062

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testo 610

Humidity and Temperature

Perform IAQ/Temperature/Humidity analysis on those difficult comfort complaints. Also, get highly accurate web bulb, dry bulb and relative humidity measurements to evaluate humidity control and equipment sizing concerns.

Features:

- Long-term stable humidity sensor
- 2.5 %rH accuracy with calibration certificate
- Includes dewpoint calculation and wet bulb
- HOLD/MAX/MIN

Technical data:

Temperature	
Measuring range:	14 to 122 °F
Resolution:	0.1 °F
Accuracy:	± 0.9 °F
Units:	°C/°F

Humidity	
Measuring range:	0 to100 %rH
Resolution:	0.1 %rH
Accuracy:	± 2.5 %rH (5 to 95 %rH)
Units:	%rH, wet bulb, dewpoint
Oper. temp.:	14 to 122 °F
Battery type:	Alkaline (2 x AAA)
Battery life:	200 hrs. (average, without backlit display)
Dimensions (incl. protective cap):	4.5 x 1.7 x 1 inches

Order no. 0560 0610

testo 810

Two in One Thermometer Surface & Air

Ideal for measuring temperature differences between the air and walls, or windows and more. Excellent for pinpointing potential heat loss/gain areas. Safely perform non-contact temperature measurement of heated pipes and moving parts like motors.

Features:

- IR measurement with 1-point laser sighting and 6:1 optics
- Air temperature measurement
- Displays differential temperature
- HOLD/MAX/MIN

Technical data:

Surface temperature (IR)	
Measuring range:	22 to 572 °F
Resolution:	0.1 °F
Accuracy:	± 3.6 °F (-22 to +212 °F) ± 2% of rdg. + 1 digit (remaining range)
Optics:	6:1

Air temperature	
Measuring range:	-14 to 122 °F
Resolution:	0.1 °F
Accuracy :	± 0.9 °F
Units:	°C/°F
Oper. temp.:	-14 to 122 °F
Battery type:	Alkaline (2 x AAA)
Battery life:	50 hrs. (average, without backlit display)
Dimensions (incl. protective cap):	4.5 x 1.7 x 1 inches

Order no. 0560 0810

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Application Chart

Pocket PRO Model No.	Measured Parameters	Residential Contractors	Commercial Contractors	Home Inspectors	Building Performance Consultants and Contractors
410-1 410-2	• Air velocity • Air temperature (-2) • Humidity (-2)	✓	✓	✓	✓
460	• rpm (optical)		✓		
510	• Differential pressure +/- 40”wc	✓	✓	✓	✓
511	• Absolute pressure • Barometric pressure • Altitude	✓	✓	✓	✓
540	• Light intensity		✓		✓
606-1 606-2	• Material moisture • Ambient humidity (-2) • Ambient temperature (-2)	✓	✓		✓
610	• Temperature • Humidity, Wetbulb, Dewpoint	✓	✓	✓	✓
810	• Ambient temperature • IR Surface temperature	✓	✓	✓	✓

Other Products

More products from the complete Testo HVAC/R line

Combustion/ CO
testo 317-3
testo 330

Refrigerant Leak Detector
testo 316-4

Airflow
testo 417

HVAC System Performance
testo 435

Digital AC/R System Analyzer
testo 523

Humidity
testo 625 (wireless)
testo 605

Loggers, transmitters... and more!
Request our NEW HVAC/R Pocket Brochure