



**PCA
400**

Portable Combustion & Emissions Analyzer

PCA® 400

FEATURES

Large touch screen display
Bluetooth® wireless communications
Long-life O₂ sensor (5 Year Warranty)
Customizable reports for data viewing
Standard Li-Ion Battery
Rugged, one step probe connection
Automatic Sensor Protection
B-Smart Sensor Exchange Program

BENEFITS

Flexible, intuitive operation
Quickly and easily stream data to smartphones & tablets
Reduces maintenance cost and downtime
Easy compliance reporting and record keeping
Operates > 12 hours; optional AA batteries or AC power
Easy to attach; exceptional durability
Protects sensors in the toughest combustion environments, extending life
Delivers pre-calibrated sensors to your door to eliminate field calibration and minimizes maintenance

DESCRIPTION

Bacharach's new PCA 400 can measure up to 4 gases at once with 6 sensor options.

Users have the option to save measured data in the unit as discreet tests or stream it live via Bluetooth® communications or other smart hand-held device for longer test protocol.

Reports are easily and quickly generated to satisfy compliance requirements. Interchangeable power options (rechargeable Li-Ion, 'AA' alkalines or line power) ensure the unit is always ready for use.

Probes and hoses come in a variety of lengths and materials to satisfy a wide range of measurement and application requirements.

Automatic sensor protection not only guards the sensors from damage, but doubles their measurement range under high load conditions for increased flexibility.

ORDERING INFORMATION

P/N	DESCRIPTION
2411-1112	PCA 400 w/ O ₂ , CO, NO, 12 in. probe with 7.5 ft. STD tubing, standard case and Bluetooth® printer
2412-1312	PCA 400 w/ O ₂ , CO, NO, NO ₂ , 12 in. probe with 7.5 ft. VITON™ tubing, standard case and Bluetooth® printer
2413-1312	PCA 400 w/ O ₂ , CO, NO, SO ₂ , 12 in. probe with 7.5 ft. VITON™ tubing, standard case and Bluetooth® printer



COMMERCIAL



INDUSTRIAL

SPECIFICATIONS

MEASUREMENTS:	DESCRIPTION
O ₂	0 to 29%
CO-H ₂ compensated	0 to 10,000 ppm
CO (high range)	0 to 40,000 ppm
NO	0 to 3,000 ppm
NO ₂	0 to 500 ppm
SO ₂	0 to 5,000 ppm
Size (L x W x D, approx.)	10" x 3.8" x 2.5" (25.4 x 9.7 x 6.4 cm)
Weight (approx.)	1.5 lbs (0.68 kg) w/Li-Ion battery pack
Power	Three options: Rechargeable Li-Ion battery, 4x AA or wall adapter (5V USB)
Display	4.3 in. (10.9 cm) color touch panel LCD
Run Time	12 to 14 hours (typical, w/included Li-Ion battery pack)
Warm-up Time	60 seconds
Fuels ^[1]	Natural gas, coal, oil 2/4/6, propane, wood/biofuels, kerosene, bagasse, digester gas, B5, pellets, KOKS, LEG, LPG, butane, wood chips
Operating Conditions	Temperature: 32 to 113° F (0 to 45° C) Humidity: 5 to 90% RH non-condensing Air Pressure: 1 atmosphere ±10% Position: Any
Environmental Conditions	Stack Temperature: -4 to 2192°F (-20 to 1200 °C) Ambient Temperature: -4 to 999 °F (-20 to 537 °C) Draft/Differential Pressure: ± 72 inch of H ₂ O (± 179mB)
Memory	500 sets of records
Communications	Bluetooth® 4.0, USB 2.0 (micro-B), IrDA
Approvals	CE Mark pending
Warranty	2 years for instrument, 5 years for O ₂ sensor

^[1] Depending upon combustion equation setting (North American or Siegert) - see manual for details.

ACCESSORIES AND OPTIONS:

A variety of probe and tubing options are available to customize your instrument for your application.



Optional sample conditioner effectively removes water and particulates from flue gas in high heat emissions applications.



Ordering Information: Part No. BA001410, BA001440

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In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

