

PCA® 400 Combustion and Emissions Analyzer

For Commercial and Industrial Applications



Large color touch display

Integrated magnetic boot



Combustion App



DESCRIPTION

Bacharach's PCA® 400 is a handheld versatile combustion and emissions analyzer for commercial and individual applications. The analyzer may be configured for up to 4 gas sensors, including O₂, CO, NO, NO₂ and SO₂. The PCA® 400's portable and durable design is ideal for testing, tuning, and maintaining burners, engines, furnaces and variety of other commercial and industrial combustion applications. The analyzer also features Bluetooth® communications which allows users to view real-time data send customizable reports from their compatible smart phone.

FEATURES

Up to 4 Gas Sensors (O₂, CO, NO, NO₂ & SO₂)

Sample Conditioner

Real-Time PC Software

Combustion App

Long Life O₂ Sensor (5 Year Warranty)

Automatic Dilution and Sensor Protection

Dual Bluetooth and IR Printer with magnet

Precalibrated, B-Smart® Sensors

BENEFITS

Versatile analyser for many commercial and industrial applications

Superior accuracy for low NO_x and SO_x applications

View and save live data for easy compliance reporting

Quickly create custom reports with comments and send via email (available for Android & iOS).

Reduced maintenance cost and downtime

Protects sensors in the toughest combustion environments, extending life

Print combustion and emissions reports in the field

Quick and easy sensor replacement in the field & reduced downtime (doesn't require cal. gas)



Automatic delivery of precalibrated sensors to your door to eliminate field calibration and minimize maintenance

PCA® is a trademark of Bacharach, Inc.
mybacharach.com

FOR MORE INFO:

Scan the QR code to learn more about the PCA® 400 and other Bacharach products.



SPECIFICATIONS	DESCRIPTION
O ₂	0 to 20.9%
CO (high range)	0 to 40,000 ppm
NO ₂	0 to 500 ppm
CO-H ₂	0 to 10,000 ppm
NO	0 to 3,000 ppm
SO ₂	0 to 5,000 ppm
Fuels ⁽¹⁾	Natural Gas, Coal, Oil 2/4/6, Propane, Wood / Biofuels, Kerosene, Bagasse, Digester Gas, B5, Pellets, KOKS, LEG, LPG, Butane and Wood Chips
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)

⁽¹⁾ Available fuels vary based on settings (North American or Siebert).

PRODUCT DETAILS	DESCRIPTION
Size (L × W × D)	10 × 3.8 × 2.5 (25.4 × 9.7 × 6.4 cm)
Weight	1.5 lbs. (0.68 kg) w/ Li-Ion battery pack
Power	Rechargeable Li-Ion Battery ≈ 12 hours 4 × AA Disposable Lithium Batteries ≈ 12 hours 4 × AA Disposable Alkaline Batteries ≈ 5 hours AC Adapter (100-240VAC @ 47-63 Hz) ≈ continuous
Display	4.3" (10.9 cm) backlit, color LCD with resistive touch interface
Display Languages	English, Spanish, French
Memory	500 records
Communications	Bluetooth® 4.0, USB 2.0 (micro-B), IrDA
Approvals	CE & EN50379 Parts 1 and 2 (Siebert only)
Warranty	2 years for instrument, 5 years for O ₂ sensor

PART NUMBERS *	DESCRIPTION
2411-1112	PCA® 400 (analyzer with O ₂ , CO and NO sensors, 12' probe, 7.5' sample hose assembly, IrDA + Bluetooth® wireless printer and rugged protective carrying case)
2412-1312	PCA® 400 for NO _x Measurement (analyzer with O ₂ , CO, NO and NO ₂ sensors, 12' probe, 7.5' Viton™ sample hose assembly, IrDA + Bluetooth® wireless printer and rugged protective carrying case)
2413-1312	PCA® 400 for SO _x Measurement (analyzer with O ₂ , CO, NO and SO ₂ sensors, 12' probe, 7.5' Viton™ sample hose assembly, IrDA + Bluetooth® wireless printer and rugged protective carrying case)

* Additional configuration options available.

PROBE / SAMPLE HOSE OPTIONS



A variety of probe and sample hose options are available to customize the PCA® 400 for any application.

ACTIVE SAMPLE CONDITIONER



The optional sample conditioner's thermoelectric chiller helps users maintain a cool, clean and consistent sample by removing water vapor from the flue gas sample.



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