

# PCA® 400 Combustion and Emissions Analyzer

## For Commercial and Industrial Applications



### 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 O<sub>2</sub>, CO, NO, NO<sub>2</sub> and SO<sub>2</sub>. 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  
(O<sub>2</sub>, CO, NO, NO<sub>2</sub> & SO<sub>2</sub>)

Sample Conditioner

Real-Time PC Software

Combustion App

Long Life O<sub>2</sub> 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 NOx and SOx applications

View and save live data for easy compliance reporting

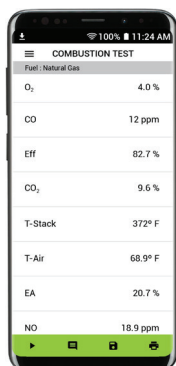
Quickly create custom reports with comments and send via email (available for Android & iOS).

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)



Combustion App



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

### HOW TO CONTACT US:

US Customer Service: +1 724 334 5000

EU Customer Service: +353 1 284 6388

CAN Customer Service: +1 905 882 8985

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 <sub>2</sub>	0 to 20.9%
CO (high range)	0 to 40,000 ppm
NO <sub>2</sub>	0 to 500 ppm
CO-H <sub>2</sub>	0 to 10,000 ppm
NO	0 to 3,000 ppm
SO <sub>2</sub>	0 to 5,000 ppm
Fuels <sup>[1]</sup>	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 <sub>2</sub> O (± 179mB)

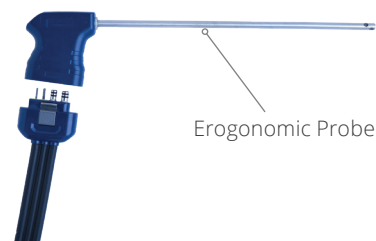
<sup>[1]</sup> Available fuels vary based on settings (North American or Siegert).

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 (Siegert only)
Warranty	2 years for instrument, 5 years for O <sub>2</sub> sensor

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



Ergonomic Probe

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.