

# PCA<sup>®</sup> 400 Combustion and Emissions Analyzer

For Commercial and Industrial Applications



Large color touch display

Integrated magnetic boot

## DESCRIPTION

MSA Bacharach's PCA<sup>®</sup> 400 is a handheld versatile combustion and emissions analyzer for commercial and industrial 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<sup>®</sup> 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<sup>®</sup> 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, Sensor Exchange Program Sensors

## Benefits

Versatile analyzer for many commercial and industrial applications

Superior accuracy for low NOx and SOx applications

View and save live data for easy compliance reporting

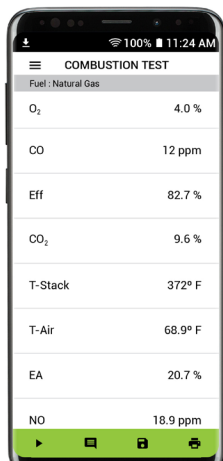
Quickly create custom reports with comments and send via email (available for Android & iOS).

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)



Generate Custom Reports with the Combustion App



## MORE INFORMATION:

Scan the QR code to learn about the PCA<sup>®</sup> 400 and other MSA 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)  |

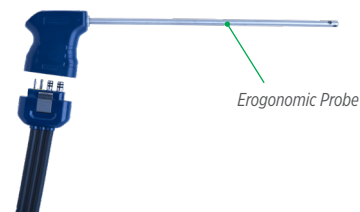
| Product Details   | Description   |
|-------------------|---|
| SIZE (L x W x D)  | 10" x 3.8" x 2.5" (25.4 x 9.7 x 6.4 cm)   |
| WEIGHT            | 1.5 lbs. (0.68 kg) w/ Li-Ion battery pack   |
| POWER             | Rechargeable Li-Ion Battery ≈ 12 hours<br>4 x AA Disposable Lithium Batteries ≈ 12 hours<br>4 x AA Disposable Alkaline Batteries ≈ 5 hours<br>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 Number | 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.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

## 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.