PCA® 400 Combustion and Emissions Analyzer

MSA The Safety Company

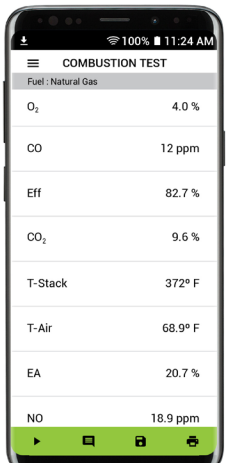
For Commercial and Industrial Applications



DESCRIPTION

MSA 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_2, CO, NO, NO_2 and SO_2. 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	Benefits
Up to 4 Gas Sensors (O_2, CO, NO, NO_2 & SO_2)	Versatile analyser for many commercial and industrial applications
Sample Conditioner	Superior accuracy for low NOx and SOx applications
Real-Time PC Software	View and save live data for easy compliance reporting
Combustion App	Quickly create custom reports with comments and send via email (available for Android & iOS).
Long Life O_2 Sensor (5 Year Warranty)	Reduced maintenance cost and downtime
Automatic Dilution and Sensor Protection	Protects sensors in the toughest combustion environments, extending life
Dual Bluetooth and IR Printer with magnet	Print combustion and emissions reports in the field
Precalibrated, Sensor Exchange Program Sensors	Quick and easy sensor replacement in the field & reduced downtime (doesn't require cal. gas)



Generate Custom Reports with the Combustion App

Download on the App Store

Available on the Android App Store

Bluetooth®

MORE INFORMATION:

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

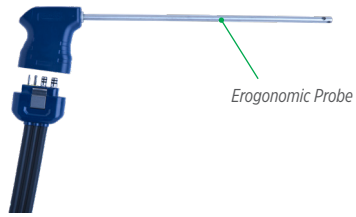
SAFEGUARDING PEOPLE, PLACES, & THE PLANET

PCA® 400 Combustion and Emissions Analyzer

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 2192ºF (-20 to 1200 ºC)
	Ambient Temperature: -4 to 999 ºF (-20 to 537 ºC)
	Draft / Differential Pressure: ± 72 inch of H_2O (± 179mB)

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	Rechargable 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_2 sensor

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 mantain a cool, clean and consistant sample by removing water vapor from the flue gas sample.

Part Number	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 NOx Measurement (analyzer with O_2, CO, NO and NO2 sensors, 12" probe, 7.5' Viton™ sample hose assembly, IrDA + Bluetooth® wireless printer and rugged protective carrying case)
2413-1312	PCA® 400 for SOx Measurement (analyzer with O_2, CO, NO and SO2 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.

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Authorized Distributor
APL ASIA CO., LTD.
11/129-132 Moo.5 Lamlukka Rd.,T.Kookut, A.Lamlukka, Pathumthani 12130 Thailand.
TEL. 0-2995-4461-4 www.apl-asia.com EMAIL : sales@apl-asia.com LINE@ : @APL-ASIA