



PCA®3



FLUE-GAS ANALYZER

The PCA®3 is a professional flue-gas analyzer and therefore the perfect tool for the service technician and boiler contractor. It is fully equipped and comes even with a data transfer program that includes a USB cable as well. The instrument has the capability to log data over a customizable period of time. The PCA®3 uses up to 6 electrochemical sensors which are field-upgradable. Furthermore it has a large full color graphic display with bright backlighting, zoom display and dimming mode.



LARGE DISPLAY

Large full color graphic display with bright backlighting and zoom

ROBUST ENCLOSURE

- Protective rubber boot with integrated magnets.

MEASUREMENTS AND SENSORS

- Flue gas measurement, CO ambient measurement, Draft / differential pressure, differential temperature
- Automatic CO protection
- O₂, CO (H₂-kompensiert), CO₂, CO_{pure}, T-Gas, T-Air, Combustion Efficiency, Excess Air ,
- Two more sensors can be installed (NO, NO₂, SO₂, CO-high) and they field-upgradable – no need to send the machine for the upgrade.
- CO pure with reference O₂ value
- NO / NO₂ / SO₂ / NO_x with reference O₂ value
- Information on O₂ sensor life
- Input of soot number and calculation of average values.

ZERO POINT CALIBRATION

Within 60 seconds

FUNCTIONS

- Easy and intuitive operation.
- Tactile keypad
- Input of customers name
- Memory for 500 measurements
- Data Logger for 500 measurements
- 10 Fuels

INTERFACES

- IrDA for data transfer to a high-speed IR thermal printer
- USB with software to transfer stored data to a PC and Instrument Set-Up and upgrade.

APPROVALS

- EN 50270
- EN 50379

B-SMART® SENSORS

- Sensors can be exchanged in the field!
- Unique B-Smart® sensor technology saves downtime and calibration costs
- Information about next calibration date!





TECHNICAL DATA

Oxygen	O2	0 – 21 Vol.%
Carbon monoxide	CO (H2-komp.)	0 – 4000 ppm
CO pure	COp	0 – 9999 ppm
Carbon Dioxide	CO2	0 – 25 Vol.%
Carbon monoxide - high	CO	4001 – 20000 ppm (Optional)
Nitric Oxide	NO	0 – 3000 ppm (Optional)
Nitrogen Dioxide	NO2	0 – 500 ppm (Optional)
Nitric Oxides	NOx	0 – 3500 ppm (Optional)
Sulfur Dioxide	SO2	0 – 5000 ppm (Optional)
CO/CO2		0 – 0.999
Heat Losses	qA	0 – 100 %
Combustion Efficiency	ETA	0 – 120 %
Excess Air	LAMBDA	1 – 9.95
Flue-Gas Temperature	T1	-20 – 1200°C
Air Temperature	T2	-20 – 530°C
Draft / Differential Pressure	P	± 180hPa
Dimensions / Weight		229 x 76 x 63 mm / 600g



STANDARD



PCA@3 SET with IR high-speed thermalprinter

PCA@3 STANDARD – Part No. 11028

- Flue-Gas Analyzer PCA@3
- Rubber boot with integrated magnets
- Gas sampling probe, sheath 300mm
- Condensation trap with integrated filter
- Data Transfer Program
- USB cable
- Spare filter
- Batteries
- Carrying case

PCA@3 SET – Part No. 11029

- As above, but with IrDA high-speed thermal printer

MORE MODELS :

		STANDARD	SET
PCA@ 3 with one more sensor:	NO	Part. No. 11030	Part. No. 11031
	CO-high	Part. No. 11032	Part. No. 11033
	SO2	Part. No. 11034	Part. No. 11035
PCA@3 with two more sensors:	NO and NO2	Part. No. 11036	Part. No. 11037
	NO and SO2	Part. No. 11038	Part. No. 11039
	NO and CO-high	Part. No. 11040	Part. No. 11041

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