

# BOSTON X



MADE IN ITALY

## PORTABLE FLUE GAS ANALYZER



Tecno  
Control

## PORTABLE FLUE GAS ANALYZER

**BostonX**, in response to modern combustion analysis requirements, brings together everything needed to perform combustion analysis on any boiler, irrespective of the fuel and power rating. A powerful processor, exemplary electronics and the use of the finest components available make this instrument an inseparable work mate.

**It must be easy to use:** with BostonX, you only have to choose the fuel and boiler type, the rest is fully automatic through to printing the report.

**It must be reliable:** with BostonX, you get an instrument made by people who have been making combustion analysis products for over 50 years. 4 YEARS WARRANTY.

**It must be helpful:** with BostonX, annexes F and G are completed automatically.

**It must be Smart:** with BostonX, you can count on a very convenient APP for optimum instrument management.

**It must be economical to use:** with BostonX, which has oxygen, carbon monoxide, and nitrogen monoxide cells, the 4 YEARS WARRANTY not only guarantees the entire instrument for that period, but maintenance costs will also be very low.

**BostonX** is also so much more. Its built-in flash memory, makes it possible to store both the names of the technicians who will use the instrument and the customer's registry data; data that can also be transferred via the USB-C port with which it is equipped.

This makes it possible to associate the tests with the customer and the technician who performed the check, for perfect traceability of each operation performed. The instrument is supplied complete with a robust IP67 watertight case that contains everything needed to perform combustion analysis, including Bluetooth printer and calibration report. Colour graphic touch display and rechargeable lithium battery complete this overview of the instrument.



USB-C PORT



BLUETOOTH



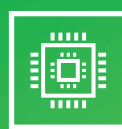
CELLS REPLACEABLE BY THE USER



COLOUR TOUCH DISPLAY



IR PORT



INTERNAL FLASH MEMORY



LITHIUM BATTERY



DEDICATED APP



## ADDITIONAL FUNCTIONS

- User-replaceable pre-calibrated cells (with own calibration report)
- Automatic cell recognition
- Long-life cells: 4 years
- Powerful lithium battery: average autonomy 10 hours
- Colour touch display
- Two measurement ranges for carbon monoxide: 4,000 and 10,000 ppm (with automatic selection as required)
- Full instrument warranty: 4 years
- Automatic completion of F and G forms
- Free dedicated APP
- Can be used for any boiler and any output (also cogenerators)
- Extremely handy handheld instrument
- Case customisable with company name (anti-theft)



## USER-REPLACEABLE SENSOR CELLS



Fast, easy, economical: undeniably convenient, on the **BostonX** you can easily replace cells when they run out. You will not need to send the instrument in for a service, simply purchase the spare part from your dealer. **BostonX** will always stay with you, no transport costs and no absence from work.

## MODELS AVAILABLE

### ST200AN/OC

BostonX with O<sub>2</sub> / CO cells (Oxygen and Carbon monoxide)

### ST200AN/OCN

BostonX with O<sub>2</sub> / CO / NO cells (Oxygen, Carbon monoxide and Nitrogen monoxide)

## CASE CONTENTS



INTAKE PROBE  
AND FLUE GAS  
TEMPERATURE



RECHARGEABLE  
BLUETOOTH  
PRINTER



COMBUSTION AIR  
TEMPERATURE  
PROBE



## FOUR SIMPLE STEPS FOR AUTOMATIC TESTING



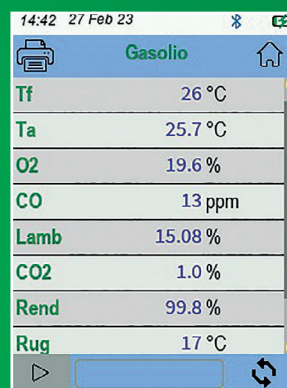
1

CHOOSE THE FUEL



2

CHOOSE BOILER TYPE



3

THE INSTRUMENT  
DOES THE ANALYSIS  
AUTOMATICALLY



4

FINAL REPORT

# TECHNICAL SPECIFICATIONS

PARAMETER	SENSOR TYPE	MEASUREMENT RANGE	RESOLUTION	PRECISION	NOTES
O <sub>2</sub>	Electrochemical	0 ÷ 21%	0,1% vol.	± 0,3% vol.	Duration 4 years
CO	Electrochemical	0 ÷ 10.000 ppm	1 ppm up to 4.000 ppm 10 ppm over	± 20 ppm up to 4.000 ppm ± 5% over	Duration 4 years
NO	Electrochemical	0 ÷ 1.000 ppm	1 ppm	± 5 ppm up to 100 ppm ± 5% rdg	Duration 4 years Only for ST200AN/OCN
COamb	Electrochemical	0 ÷ 500 ppm	1 ppm	± 5 ppm up to 100 ppm ± 5% rdg	
CO <sub>2</sub>	Calculated	0 ÷ 100% Vol.	0,1% vol.	± 0,1% vol.	
NOx	Calculated	0 ÷ 1.500 ppm	1 ppm	± 5 ppm up to 100 ppm ± 5% rdg	
Flue gas temperature	Tc K	0 ÷ +1.000 °C	1 °C	± 2 °C	
Combustion air temperature	Tc K	-20 ÷ +500 °C	0,1 °C	± 1 °C	
Draught	Semiconductor	-500 ÷ +500 Pa	0,1 Pa	± 0,5 Pa	
Pressure	Semiconductor	-50 ÷ +500 Pa	1 Pa	± 1 Pa	

Power supply	External 230Vac power supply for charging or direct power supply (also for printer). Output voltage 5Vdc USB-C
Battery	Li-ion 3,6 Vdc 6,3 Ah
Display	LCD graphic TFT
Average autonomy	8/10 hours
Battery charging time	4 hours
Printer	External Bluetooth or infrared; paper width 58mm
Operating temperature	-10 ÷ +50 °C
Storage temperature	-20 ÷ +55 °C
Protection Index	IP40
Dimensions	200mm x 80mm x 60mm
Weight	Approx. 1,0 Kg
Weight with case	Approx. 2,5 Kg



## CONFORMITY TO NORMS

**UNI10389-1** - Field measurements - Heat generators  
Part 1: Appliances powered by liquid and/or gaseous fuel.

**UNI10389-2** - Field measurements - Heat generators  
Part 2: Appliances fuelled by solid, non-pulverised biofuel.

**UNI10845** - Gas installations for civil use - Systems for the evacuation of combustion products from gas-fired appliances.  
Criteria for verification and remediation.

**EN50379-1** - Specifications for portable electrical apparatus designed to measure combustion gas parameters of heating appliances - Part 1: General requirements and test methods.

**EN50379-2** - Specifications for portable electrical apparatus designed to measure combustion gas parameters of heating appliances - Part 2: Performance requirements for equipment used in statutory inspection and evaluation.

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DETAILS OF THE NEW

# BOSTON



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