

MAINTENANCE ACCESSORY

CALBOX

The Calbox serves as an on-site calibration box designed for electrochemical sensors, facilitating the calibration and re-calibration of the WTI's sensors using specific gas standards.

Operational mechanism: Utilizing a dual-channel precision gas flow regulator, the Calbox achieves a broad range of programmable flow rates and concentrations, accommodating both single and multiple gas sensors. Powered by a rechargeable battery, the Calbox is controllable through a PC laptop with a Windows user interface. Through the user-friendly interface on the ELLONASOFT platform, it seamlessly takes command of the WTI, streamlining the calibration process and automatically updating sensor parameters. Gas levels are continually updated during each calibration run.



Technical information

Dimension	538 x 406 x 211 mm	Maintenance	to be scheduled once a year
Weight with 4 bottles 34 liters	9.8kg. (0.5kg/Bottle)	Communications Interface	USB 2.0 Prisoner Cable 1m
Power supply	11.2V 5200 mAh Li-po battery. (Power on and charge level indicator) - Delivered with universal charger 11,1V/700mA	User Interface	On PC/Windows10 •Creating/editing/executing Calibration Sequences. •Handling TEDLAR bags (Filling/Emptying). •Establishing a bidirectional interface with the data processing platform, providing access rights to the devices requiring calibration. •Automatically updating calibration coefficients for the sensors. •Managing standard gas consumption with automatic updates. •Signaling functional parameters with alarms for low levels (battery voltage, gas pressure, etc.). •Notifying maintenance periodically for the Calbox.
Dilution Air Circuit	Built-in Rotary Pump with replaceable Dust Filter and replaceable VOC Purifying Filter	Calibratable sensors	CO, NO, NO ₂ , O ₃ , NH ₃ , H ₂ S, ETO, SO ₂ , O ₂ , LC ₂ , CH ₂ O, CO ₂ , PID with isobutylene, Mercaptans and Alcohols
Calibration gas circuit	4 way selector with 1 regulator/pressure regulator 500ml/min per lane.		
Thermal Stabilization time at power on	7 min at 25°C		
Battery autonomy	about 6 hours		
Recharge time	5h with the supplied charger		
Operating temperature range	-5°C +45°C		
Storage temperature	-15°C +55°C		

Physical contents

1 battery charger
1 filter
1 tube adapter (to screw onto WTI air inlet)
4 Tygon lines with flow regulators
1 Tygon hose with a manual valve

1 manual
Calbox certificate
1 USB stick with Calbox software
USB cable