

# LIN LOX LAR ANALYTICAL SYSTEM



Fully automated system to detect impurities into  
Oxygen, Nitrogen and bulk samples



The system is able to perform all the analysis for the conformity  
to the Pharmacopeia compliance

A software collect all results from various instruments into  
specific reports, and store results with all information about the  
specific sample analysed.

All samples could be analysed by manual selection,  
timetable mode, remote call or from badge reader  
remote\ station

PENTATEC SRL  
Via A. Moro n.7 – 24035 Curno (Bg) - ITALY  
Phone: +39 035 461673  
C.F e P.Iva: 03943410161  
mail : info@pentatecsrl.com

# ANALYTES



LIN LOX LAR ANALYTICAL SYSTEM

The system perform the following analysis:

## NITROGEN

- Purity
- Total hydrocarbons m.d.l. 0,1 ppm
- Oxigen m.d.l. 0,1 ppm
- Carbon monoxyde m.d.l. 0,1 ppm
- Carbon dioxydem.d.l. 1 ppm
- Moisture m.d.l. 1 ppm
- Nitric oxides (NOx) m.d.l. 0,1 ppm

## OXYGEN

- Purity
- Total hydrocarbons m.d.l. 0,1 ppm
- Carbon monoxyde m.d.l. 0,1 ppm
- Carbon dioxyde m.d.l. 0,1 ppm
- Moisture m.d.l. 0,1 ppm

PENTATEC SRL  
Via A. Moro n.7 – 24035 Curno (Bg) - ITALY  
Phone: +39 035 461673  
C.F e P.Iva: 03943410161  
mail : [info@pentatecsrl.com](mailto:info@pentatecsrl.com)

The system is composed by:

## 1 NITROGEN CABINET

- Pneumatic for sampling
- Personal computer
- AGC TCD gascromatograph for purity
- AGC THC on line gascromatograph for total hydrocarbon
- Delta F analyser for trace oxigen
- Infrared analyser for trace carbon monoxyde
- Infrared analyser for trace carbon dioxyde
- Electrochemical analyser for moisture
- Chemiluminescent analiser for nitric oxydes (NOx)

## 1 OXYGEN CABINET

- Pneumatic for sampling
- Personal computer
- AGC THC on line gascromatograph for total hydrocarbon
- Paramagnetic analyser for purity
- Infrared analyser for trace carbon monoxyde
- infrared analyser for trace carbon dioxyde
- Electrochemical analyser for moisture

## OPTION: REMOTE BADGE READERS STATIONS

- Heavy use Personal computer for badge reading
- Pneumatic for sampling

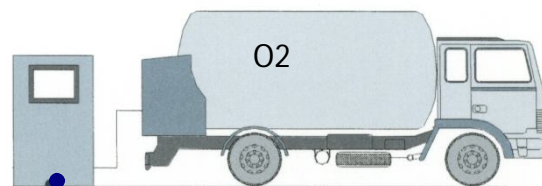
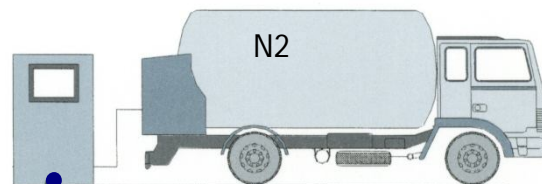
# TRUCK ANALYSIS

LIN LOX LAR ANALYTICAL SYSTEM



The optional badge reader station provides to:

- Control the plug/unplug sequence of the sampling line, with messages to the truck driver.
- Reads the mifare badges for truck identification.
- Send info to the analytical racks



The system automatically transfer the product from field to laboratory, purge the tranfert line and flows sample to the

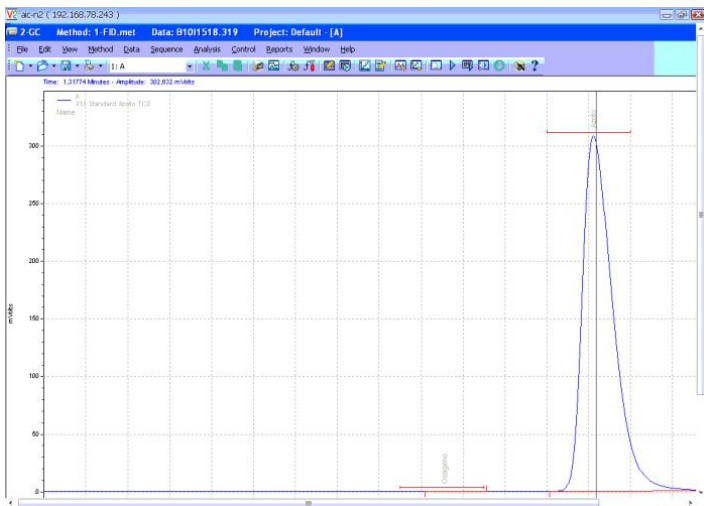
PENTATEC SRL  
Via A. Moro n.7 – 24035 Curno (Bg) - ITALY  
Phone: +39 035 461673  
C.F e P.Iva: 03943410161  
mail : [info@pentatecsrl.com](mailto:info@pentatecsrl.com)

# SOFTWARES

## LIN LOX LAR ANALYTICAL SYSTEM

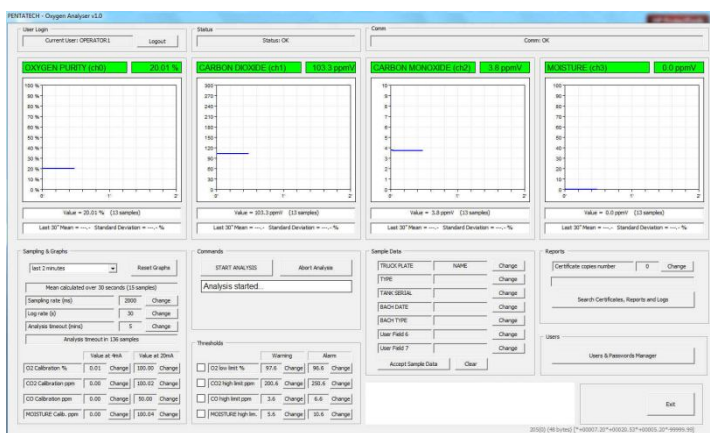
Two softwares are installed on 2 rackmount computers, sited into the analytical station

One chromatographic software and one supervisor software.



The chromatographic software provides to

- execute the GC analysis
- integrate the peaks
- export results to supervisor software



The supervisor software provides to:

- select samples
- start chromatographic software
- receive remote starts
- store and print reports



PENTATEC SRL  
Via A. Moro n.7 – 24035 Curno (Bg) - ITALY  
Phone: +39 035 461673  
C.F e P.Iva: 03943410161  
mail : info@pentatecsrl.com