User Manual of the PC software
For A55-500 interface

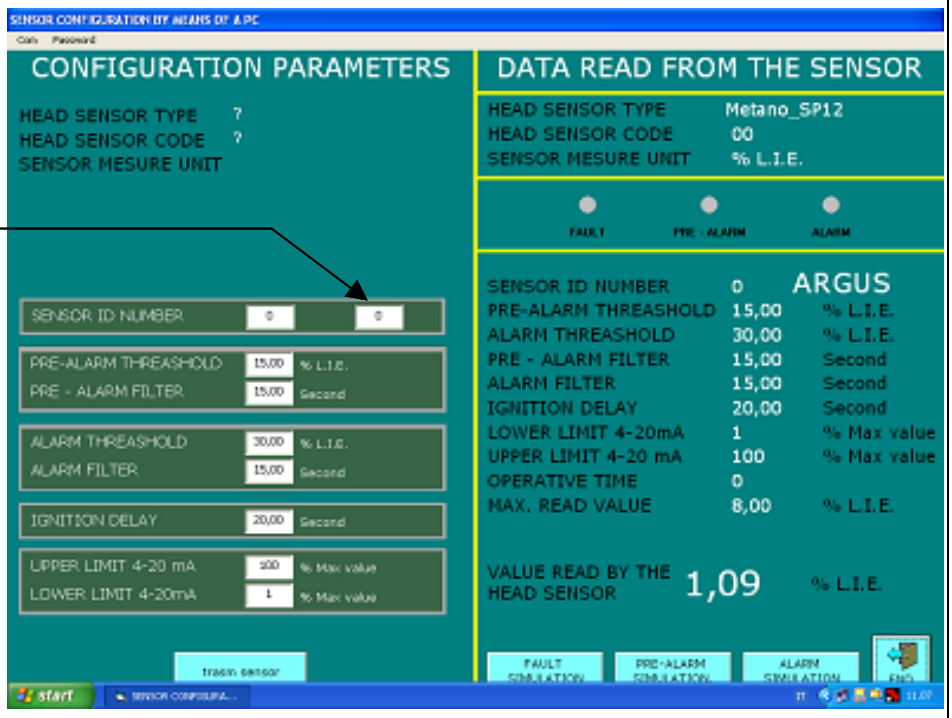
User Manual of the PC software for Gas detercors series 500 G/E55. To use with A55-500 interface.

SENSOR CONFIGURATION BY MEANS OF A PC.

The sensor can be configured and tested by connecting the proper PC interface to the J2 connector.
Then, the program can be launched.
On the monitor, 2 sections will be displayed:

Protocols ID

- Argus = 0 (zero) default
-System Sensor = 1



Data read by the sensor, on the right side

Configuration parameters, on the left side

Data read by the sensor:
Under this description, you will read:

Head sensor type: Type of Gas detected (Methane, LPG, Hydrogen etc…)

Head sensor code: code of the sensor

Sensor measure unit: P.P.M, for Carbon Monoxide and Ammonia sensors;
Percentage (%) of the volume in the air for the Oxygen sensors;
L.E.L. (Lowest Explosion Limit) for all other sensors.

Three red lamps: Fault, Pre-Alarm, Alarm
These three lamps will be switched-on in case of gas detection or simulation:
Fault: yellow lights on
Pre-alarm and Alarm: red lights on

Sensor ID number:
This is an Identification number which will be transmitted to the panel in case of fault, pre-alarm or alarm.
Default parameter: 0

Pre-Alarm and alarm threashold:
When this value is exceeded, a pre-alarm or an alarm is generated.
Default values:

Pre-alarm
15% L.E.L. for explosion. 100 P.P.M. Carbon Monoxide gas. 100 or 1000 P.P.M. for Ammonia Gas. 24% for Oxygen (>) – round up value, 18% for Oxygen (<) – round down value.

Alarm:
30% L.E.L. for explosion. 200 P.P.M. Carbon Monoxide gas. 200 or 2000 P.P.M. for Ammonia Gas. 27% for Oxygen (>) – round up value, 15% for Oxygen (<) – round down value

N.B.:For the Oxygen, the value should be 21% for a correct functioning

Pre-alarm and alarm filters:
They determine the waiting time (in seconds) before the sensor pre-alarm or alarm is activated. In case the sensor takes a pre-alarm or an alarm for a time lower than the one set in the filter, the sensor will not be activated (no alarm signal)
Default parameters:
Pre-alarm and Alarm :20 seconds.

Ignition delay:
It's the time that occurs between the power supply and sensor being ready for action.
Default parameters:
Pre-alarm and Alarm: 20 seconds.

Lower limit 4-20mA:
It's value used to set the 4mA.
Example: if the parameter is set to 10 and the measure unit of the sensor is in L.E.L., the system will start working when the 10% of the L.E.L. is exceeded.
The readings under the 10% will be ignored
Default parameter: 0

Upper limit 4-20mA:
It's the value used to set 20 mA.
Example: if the parameter is set to 50 and the measure unit of the sensor is in L.E.L., the 4-20mA system will stop working when the 50% of the L.E.L. is exceeded.
The readings over the 50% will be ignored
Default parameter: 100

Operatine time:
It's the time (in hours) of effective functioning.

Max. read value:
It's the highest value read during the operating time.

Value read by the head sensor:
It's the value that the sensor reads in real time.

Simulations:
At the bottom, you will find 3 sections:
Fault simulation, Pre-Alarm simulation, Alarm simulation:
By clicking on the required section, the system will simulate the selected status

Configurations parameters

Under this description, you will see:

Sensor ID: The ID sensor has to be set in this square.

Pre-alarm threshold: The desired pre-alarm threshold has to be set in the appropriate square.

Pre-alarm Filter: The time (in seconds), necessary for the sensor to ignore the pre-alarm status, has to be set in this square

Alarm threshold: The desired alarm threshold has to be set in the appropriate square.

Alarm filter: The time (in seconds), necessary for the sensor to ignore the alarm status, has to be set in this square.

Ignition delay: The time (in seconds), necessary for the sensor to ignore each status after the power supply, has to be set in this square.

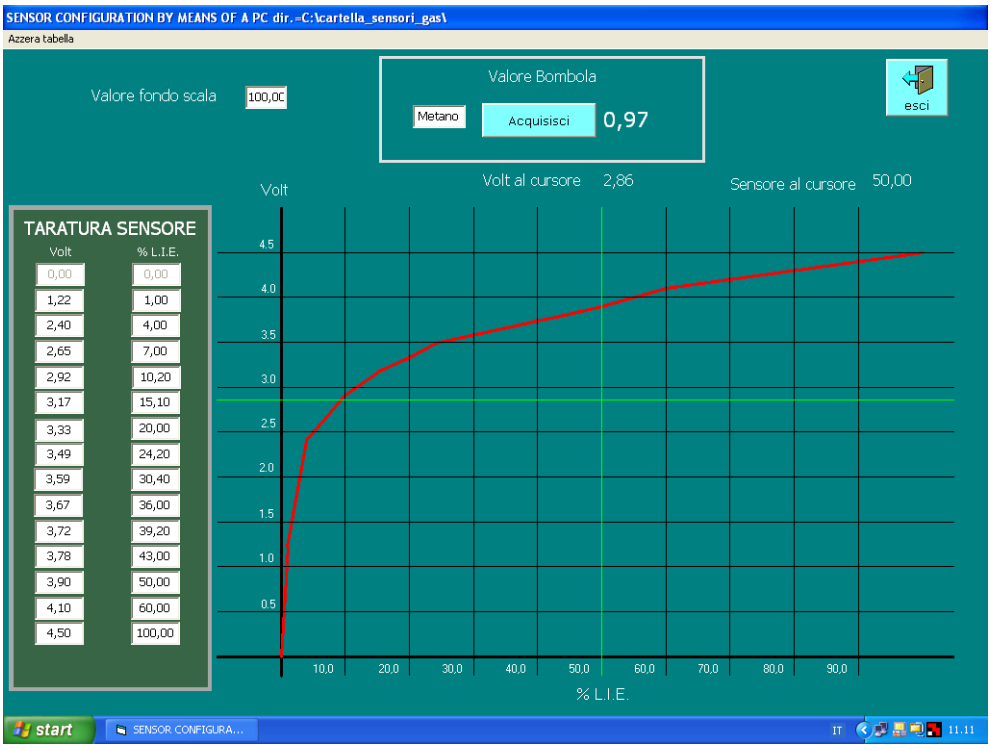
Lower limit 4-20 mA: The desired value to fix the 4 mA has to be set in the appropriate square.

Upper limit 4-20 mA: The desired value to fix the 20 mA has to be set in the appropriate square.

NOTE:
In order to activate the new parameters set on the sensor, it's necessary to click on the square with the mouse (*trasm sensor).*

IMPORTANT NOTE:
Each change of the default parameters can be carried out only by authorised staff.

EXAMPLE OF RESPONSE CURVE, IN THIS CASE METHANE GAS



INSERT THE INTERFACE INTO THE J2 CONNECTOR OF THE GAS DETECTOR

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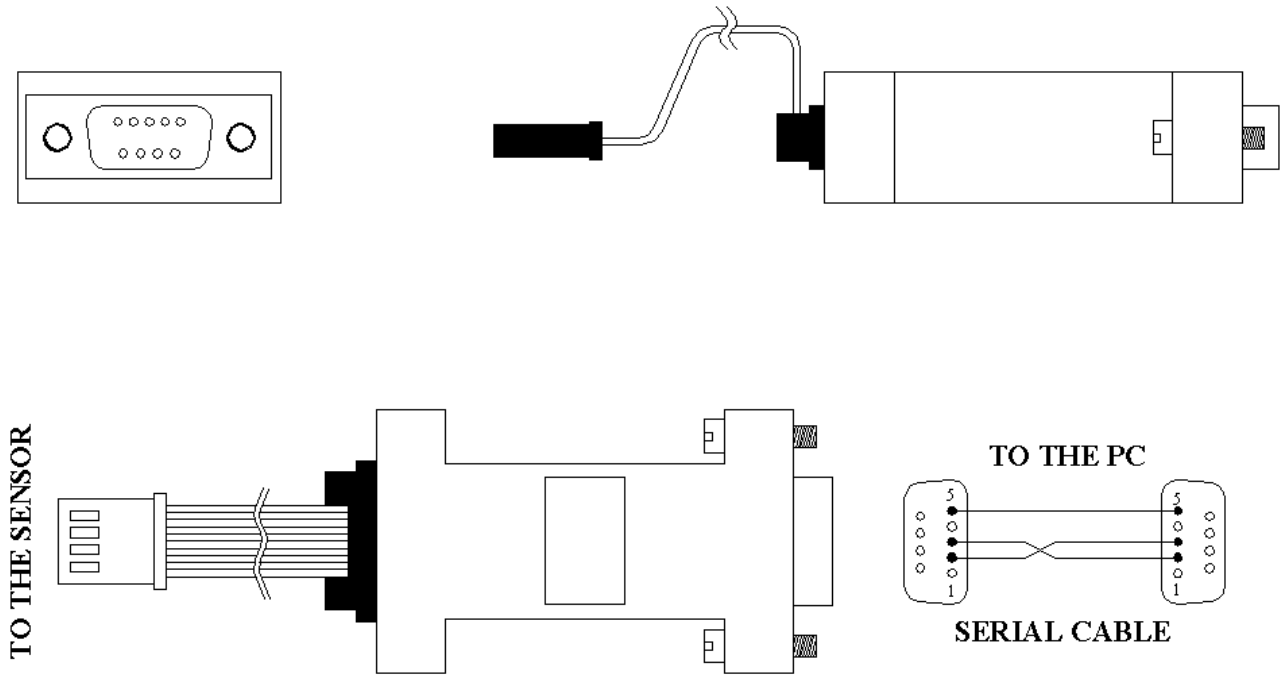

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