

# OxySens Plus

O<sub>2</sub> ambient monitoring with Zirconium  
Oxide technology Knudsen effect



# ELECTRICAL CABLING SOLUTIONS

230Vac/ 24Vdc

OxyLight



OxyLight LC



SDAM-MED D10



SDAMGUARD-MED



SCADA/ BMS



Digital outputs on/off

SDAMNet Plus

ModBus

RS485 Local network

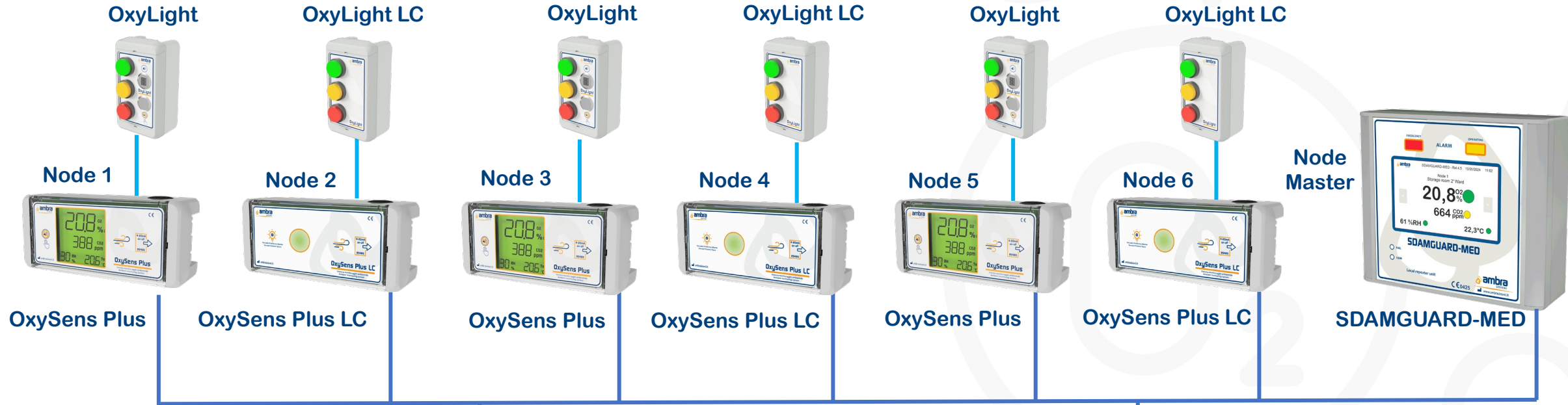
SDAM-MED A5



Analog output 4-20mA

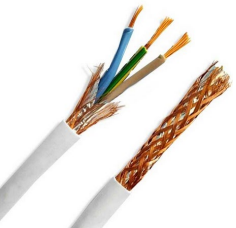


# LOCAL MONITORING SYSTEM

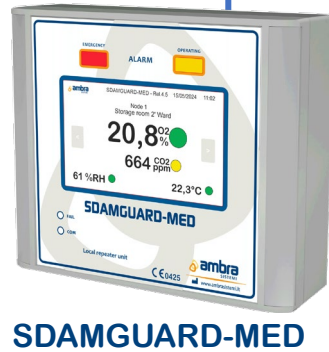


**RS485 SDAMNet Plus**  
(over 253 nodes in the same local network)

RS485 cable  
3x0,25mm<sup>2</sup>  
>2Km max cable length



**Node Repeater**  
Node 1,2,6



**SDAMGUARD-MED**

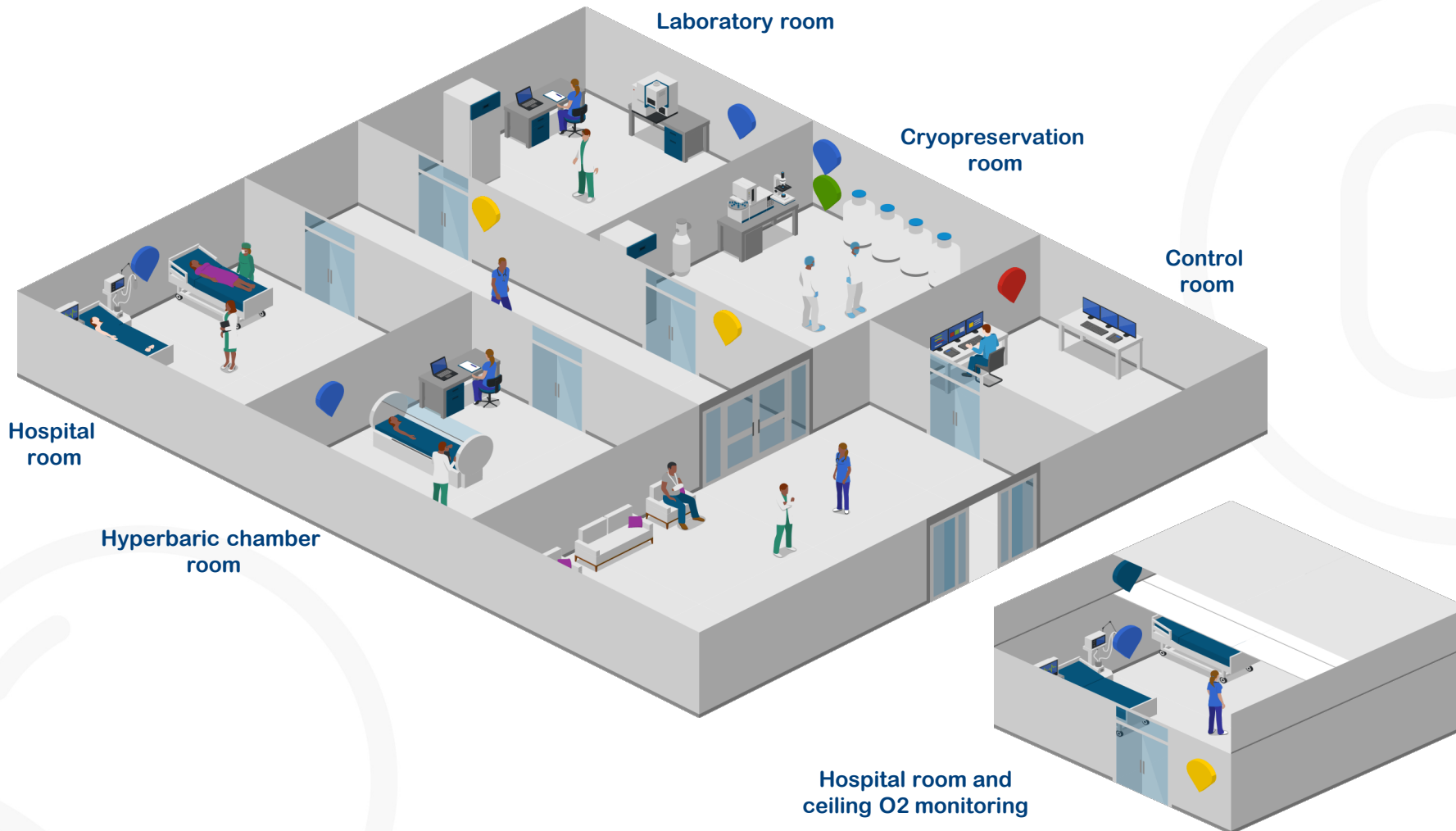
**Node Repeater**  
Node 3,4,5



**SDAMGUARD-MED**



# MEDICAL APPLICATIONS



**SDAMGUARD-MED**



**OxySens Plus/ Oxsens Plus LC**



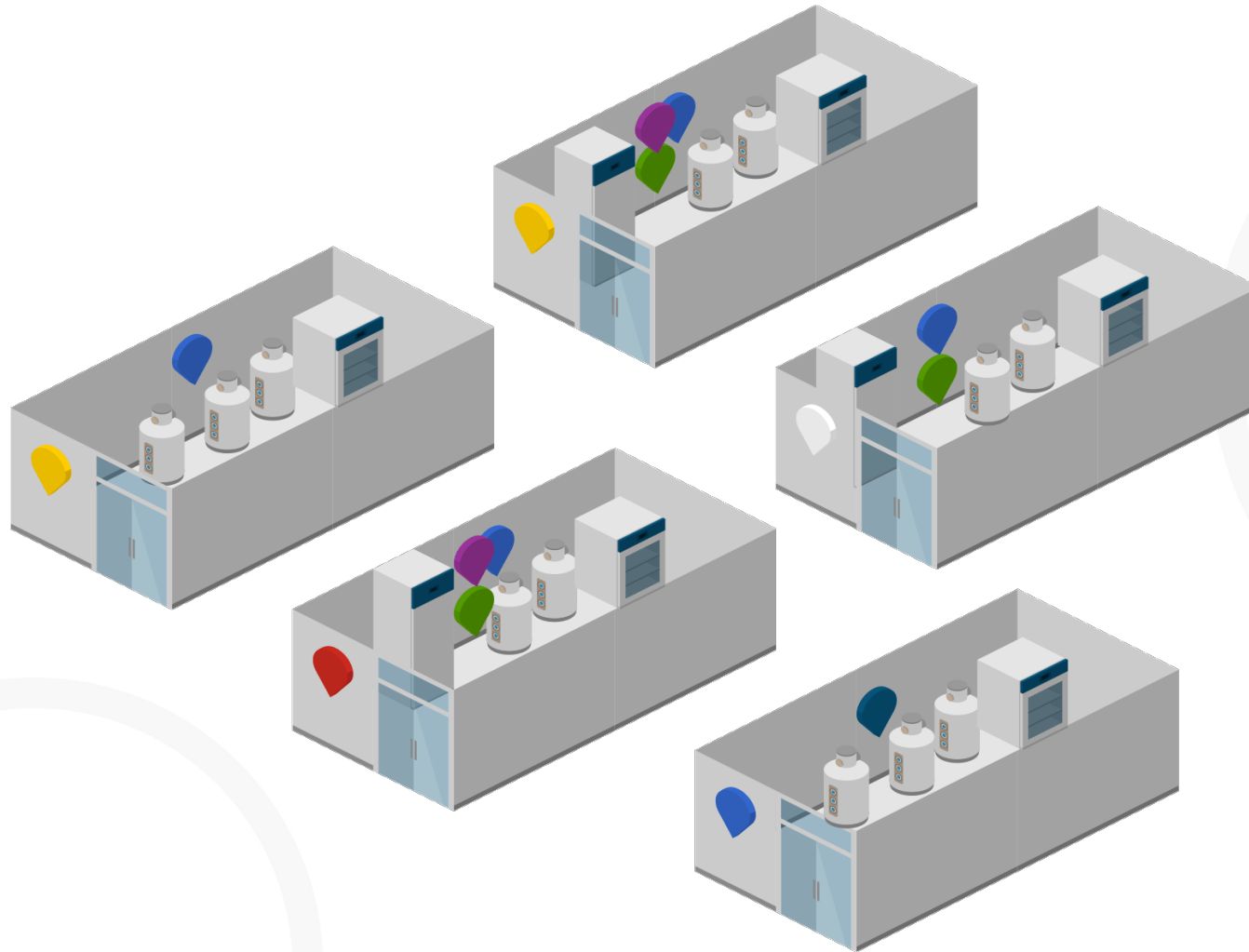
**SENS EXT  
O2**

**SENS EXT  
CO2**



**OxyLight/ OxyLight LC**

# CRYOPRESERVATION ROOM



**SDAMGUARD-MED**



Integrated sensor  
Temperature/  
Humidity

**OxySens Plus/ Oxysens Plus LC**



**SENS EXT  
O2**



**SENS EXT  
CO2**

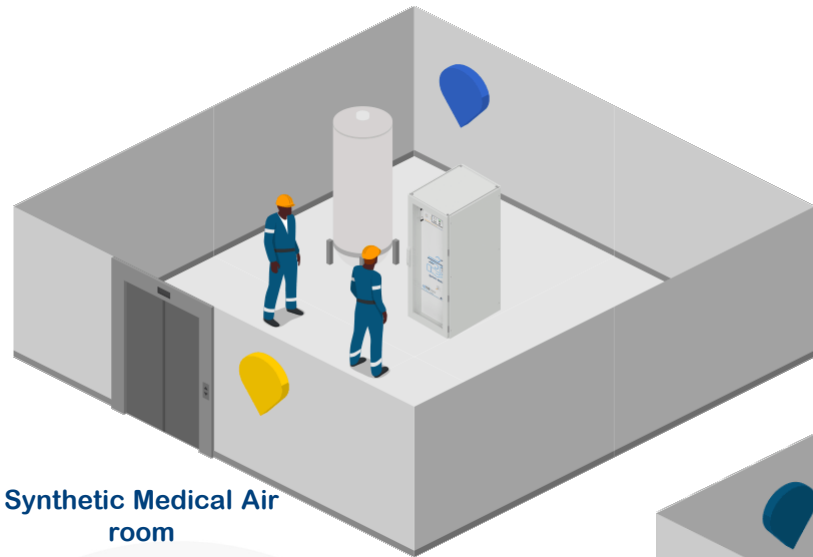


**OxyLight/ OxyLight LC**



**SDAM-MED**

# STORAGE GASES



OxySens Plus/ Oxysens Plus LC

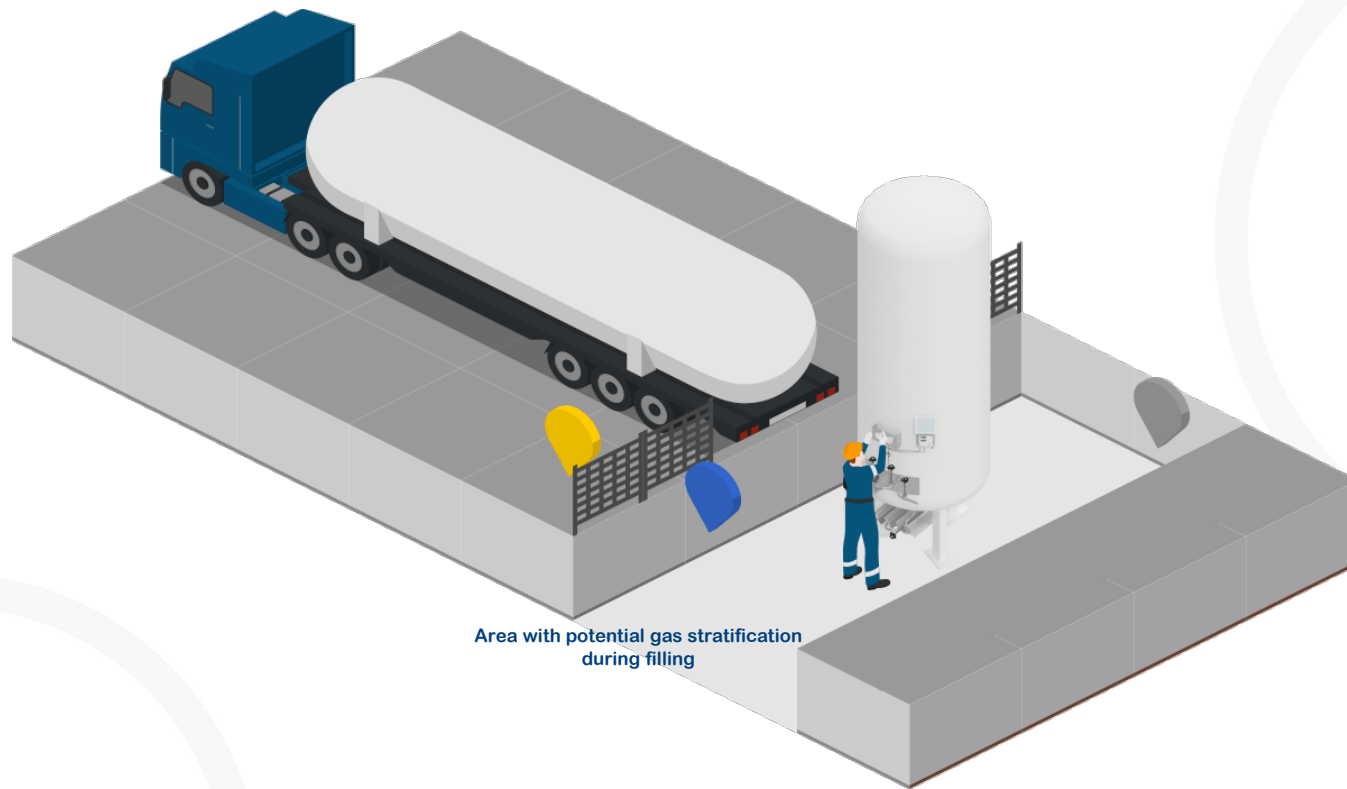


SENS EXT O2



OxyLight/ OxyLight LC

## STORAGE TANK BELOW GROUND LEVEL



**OxySens Plus IP65**



**SENS EXT O2 IP65**



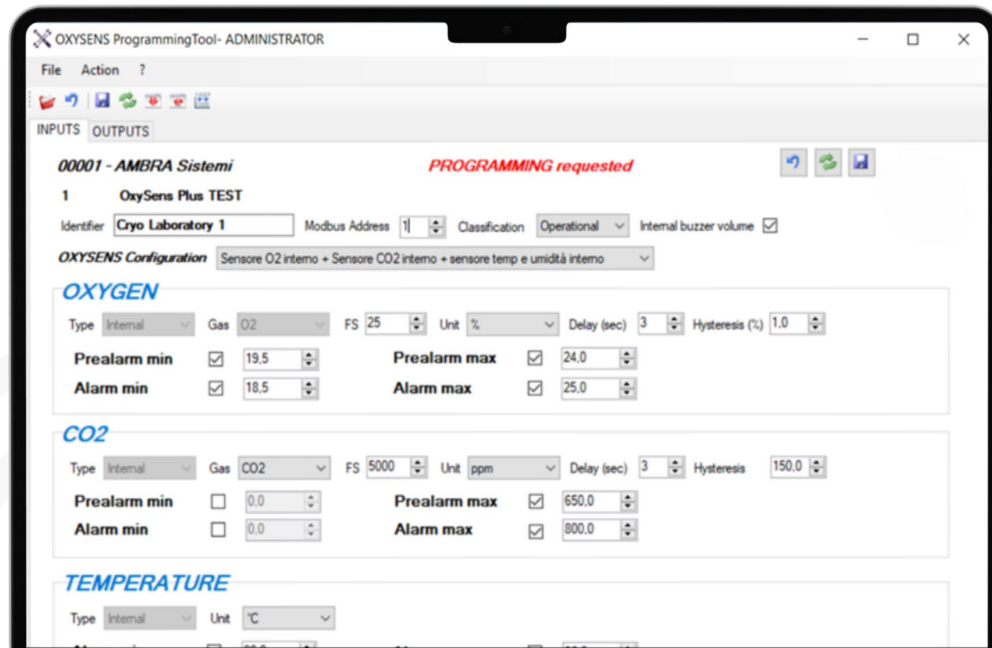
**OxyLight/ OxyLight LC**

# OxySens Plus Programming Tool



Unit and sensors setting

Single output configuration



**OXYSENS ProgrammingTool-ADMINISTRATOR**

File Action ?

INPUTS OUTPUTS

00001 - AMBRA Sistemi **PROGRAMMING requested**

1 OxySens Plus TEST

Identifer:  Modbus Address:  Classification:  Internal buzzer volume:

OXYSENS Configuration:

**OXYGEN**

Type:  Gas:  FS:  Unit:  Delay (sec):  Hysteresis (%):

Prealarm min:   Prealarm max:

Alarm min:   Alarm max:

**CO2**

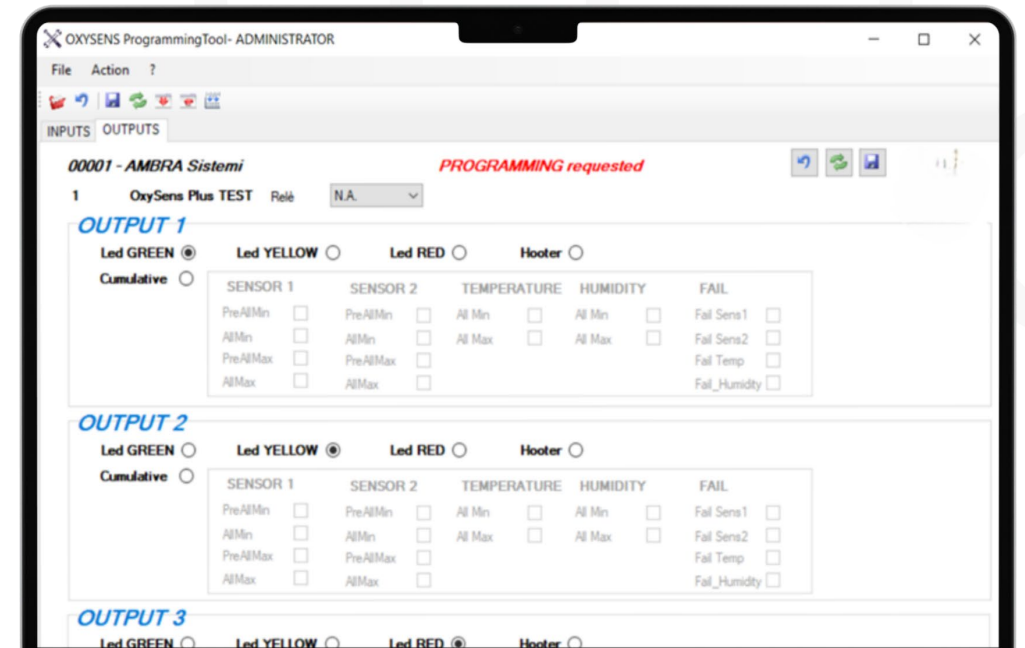
Type:  Gas:  FS:  Unit:  Delay (sec):  Hysteresis:

Prealarm min:   Prealarm max:

Alarm min:   Alarm max:

**TEMPERATURE**

Type:  Unit:



**OXYSENS ProgrammingTool-ADMINISTRATOR**

File Action ?

INPUTS OUTPUTS

00001 - AMBRA Sistemi **PROGRAMMING requested**

1 OxySens Plus TEST Relè:

**OUTPUT 1**

Led GREEN  Led YELLOW  Led RED  Hooter

Cumulative

| SENSOR 1                          | SENSOR 2                          | TEMPERATURE                     | HUMIDITY                        | FAIL                                   |
|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|----------------------------------------|
| PreAlMin <input type="checkbox"/> | PreAlMin <input type="checkbox"/> | Al Min <input type="checkbox"/> | Al Min <input type="checkbox"/> | Fail Sens1 <input type="checkbox"/>    |
| AlMin <input type="checkbox"/>    | AlMin <input type="checkbox"/>    | Al Max <input type="checkbox"/> | Al Max <input type="checkbox"/> | Fail Sens2 <input type="checkbox"/>    |
| PreAlMax <input type="checkbox"/> | PreAlMax <input type="checkbox"/> |                                 |                                 | Fail Temp <input type="checkbox"/>     |
| AlMax <input type="checkbox"/>    | AlMax <input type="checkbox"/>    |                                 |                                 | Fail_Humidity <input type="checkbox"/> |

**OUTPUT 2**

Led GREEN  Led YELLOW  Led RED  Hooter

Cumulative

| SENSOR 1                          | SENSOR 2                          | TEMPERATURE                     | HUMIDITY                        | FAIL                                   |
|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|----------------------------------------|
| PreAlMin <input type="checkbox"/> | PreAlMin <input type="checkbox"/> | Al Min <input type="checkbox"/> | Al Min <input type="checkbox"/> | Fail Sens1 <input type="checkbox"/>    |
| AlMin <input type="checkbox"/>    | AlMin <input type="checkbox"/>    | Al Max <input type="checkbox"/> | Al Max <input type="checkbox"/> | Fail Sens2 <input type="checkbox"/>    |
| PreAlMax <input type="checkbox"/> | PreAlMax <input type="checkbox"/> |                                 |                                 | Fail Temp <input type="checkbox"/>     |
| AlMax <input type="checkbox"/>    | AlMax <input type="checkbox"/>    |                                 |                                 | Fail_Humidity <input type="checkbox"/> |

**OUTPUT 3**

Led GREEN  Led YELLOW  Led RED  Hooter