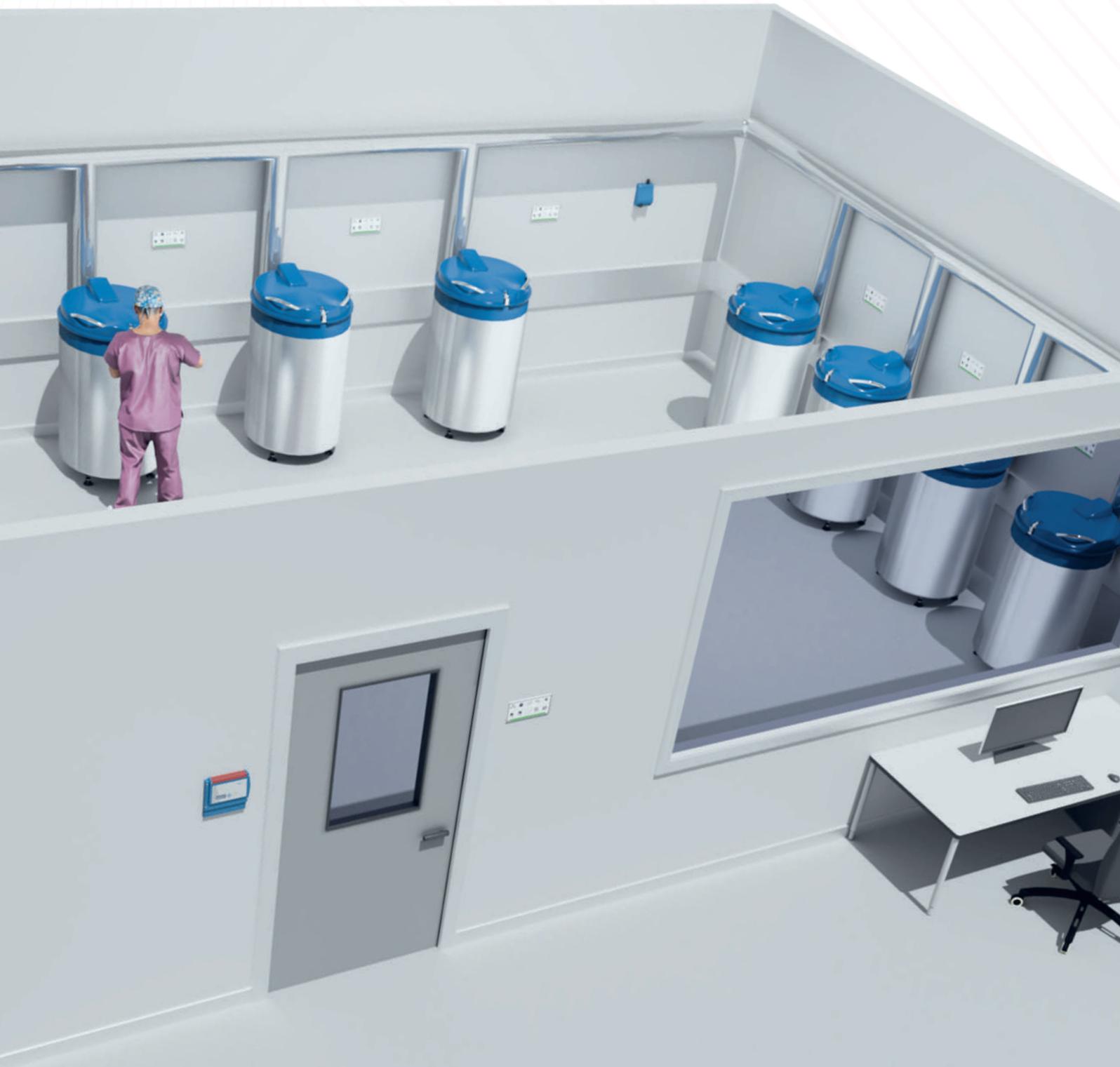


SUPERVISION AND MONITORING SYSTEM FOR CRYOBANKS



To store biological materials at extremely low temperatures using liquid nitrogen, it is necessary to ensure **maximum integrity of the stored biological samples, operational safety and reliability, reduce human intervention, and protect personnel.**

CRYOMED is an advanced system designed to **efficiently and safely automate and supervise critical operations** in cryobanks, biobanks, laboratories, and medically assisted reproduction (MAR) centres.

The system architecture is **modular, scalable, and hierarchical**, suitable for facilities of all sizes, easy to expand, and simplified for maintenance.

KEY ELEMENTS

JB - CONTROLLER

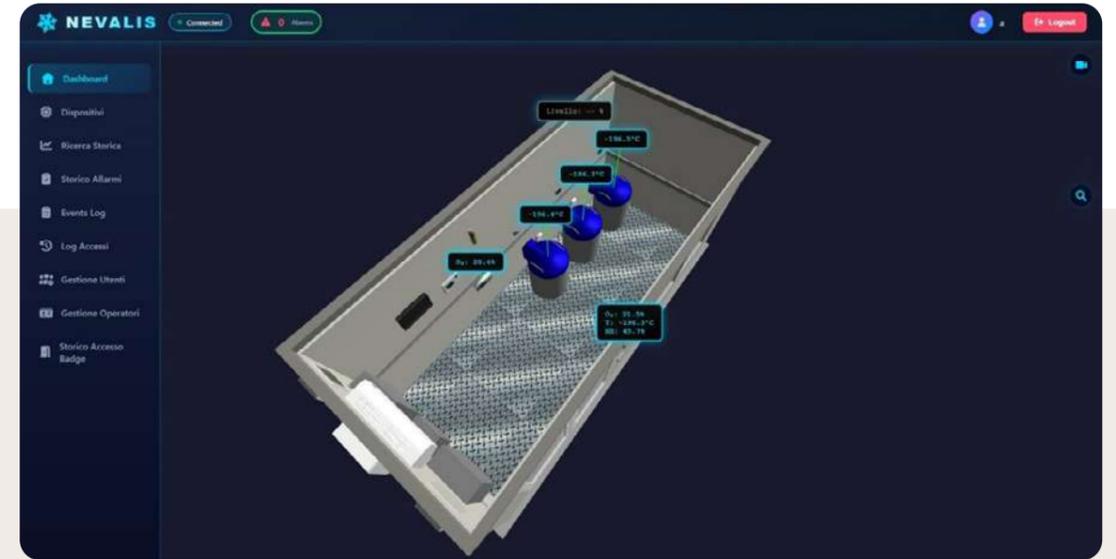


- Main control Unit
- RS485 serial communication with Modbus RTU protocol
- Aggregates, processes and transmits information to the supervision software via LAN connection (client-server mode)

JB - DEVICE



- Connection to equipment equipped with a serial port (cryogenic containers, refrigerators, incubators, sensors, buffer tanks, etc.)
- It operates intelligently, implementing specific communication protocols for each device, based on the manufacturer and model



NEVALIS

The smart supervision software

- Intuitive interface, also suitable for non-technical personnel
- Real time monitoring
- Alarm management and login
- View historical trend and export data in CSV format
- Access management and complete traceability of the operation

TECHNICAL SPECIFICATIONS

JB - CONTROLLER

Technical specification	Data
Power Supply	6...35 V DC / 5...24 V AC
Digital Inputs	16
Analogical Inputs	8 (4/20 mA)
Temperature Inputs	4 (Pt100/Pt1000)
Operator Interface & Safety	5 Manual Selectors 1 Emergency Button 1 Key Activation
Digital Output	24 (Free Contacts)
Relè Output	7
Communication Interfaces	3 x RS485 (2/4 wires)
Network Connectivity	1 x LAN (Ethernet)
User Interface	Color Touch Screen Display 4.3"
Local/Service Port	USB
Acoustic Signal	Built-in Buzzer

JB - DEVICE

Technical specification	Data
Power Supply	6...35 V DC / 5...24 V AC
Digital Inputs	8
Analogical Inputs	4 (4/20 mA)
Temperature Inputs	4 (Pt100/Pt1000)
Digital Output	8 (Free Contact)
Relè Output	3
Communication Interfaces	3 x RS485 (2/4 wires)
Network Connectivity	1 x LAN (Ethernet)
User Interface	Color Touch Screen Display 4.3"
Local/Service Port	2 X USB
Acoustic Signal	Built-in Buzzer



YOUR PARTNER **S**PECIALIZED IN **G**AS SOLUTIONS

S.I.G. SIGRA IMPRIM GROUP is an Italian company specialized in the development of advanced solutions for technical, pure, ultra-pure, and cryogenic gases, with a strong focus on quality, innovation, and customer satisfaction.

Our organization combines high-level technical expertise with a certified team capable of managing complex, tailor-made projects for industrial, medical, life sciences, laboratory, and research applications.

We offer a comprehensive range of services, from initial consultation and design to installation, revamping, and after-sales support, ensuring reliability, safety, and optimal performance in every operational environment.

Backed by a certified quality management system and strategic partnerships with well-established European partners, we are passionately committed to excellence in our field, transforming complex technologies into practical solutions that enhance our clients' production processes and safety standards.

S.I.G. SIGRA IMPRIM GROUP is **your trusted partner for innovative, high-performance, and customized gas solutions** — today and in the future.

CONTACTS



www.sigsrl.eu

info@sigsrl.eu

035 0433326

VAT 02091150165

Via Papa Giovanni XXIII, 16

24030 Solza (BG)