

Controllers

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HPL Controller



HPL Controller



Main features

- 7" / 9" TFT touch screen display
- Real time temperature
- Real time graphs
- $\pm 0.1^{\circ}\text{C}$ sensibility
- Data logger function with automatic recording of temperatures and alarms
- Internet connectivity
- Cloud management (soon available)
- USB port for data download and firmware upload
- LAN port
- SD slot for additional memory
- Available languages: Italian / English / French / Spanish / German / Turkish



Optionals

- Wi-Fi module
- GSM module
- Electric lock for door opening with PIN / badge / fingerprint

HPL Controller



Alarms

- High/Low temperature
- Power failure (with backup battery)
- Open door
- High condenser pressure
- Backup battery failure
- Pressure switch intervention failure
- Faulty probe
- Compressor timing failure
- High condenser temperature
- Dirty condenser
- Communication failure with motherboard
- Pressure transducer intervention failure



Special functions

- **Disaster recovery** – The device continues to run even in the event of a CPU failure
- **Safety control** – The device continues to operate even if the control probe breaks
- **Key test** – The user can simulate alarm conditions with a simple key pressure
- **Info test** – The functional test performed in the factory can be repeated by the user

HPL Controller



Availability

- ULT -80°C/-90°C Line
- LT -40°C/-50°C Line
- ULT -80°C BioBank Version
- LT -40°C BioBank Version
- Platelet Incubators
- Rapid Freezers
- Plasma Thawers



ULT/LT Vertical



Rapid Freezer



Plasma Thawer



ULT/LT Chest Type



Incubator

HTS Controller



HTS Controller



Main features

- 5" / 7" TFT touch screen display
- Real time temperature
- Real time graphs
- $\pm 0.1^{\circ}\text{C}$ sensibility
- Data logger function with automatic recording of temperatures and alarms
- Internet connectivity (Optional)
- Wi-Fi capabilities (Optional)
- Cloud management
- USB port for data download and firmware upload
- Available languages: Italian / English / French / Spanish / German



Optionals

- LAN module
- Wi-Fi module
- GSM module
- Electric lock for door opening with PIN / badge



HTS Controller



Alarms

- High/Low temperature
- Power failure (with backup battery)
- Open door
- High condenser pressure
- Backup battery failure
- Faulty probe
- Compressor timing failure
- High condenser temperature
- Dirty condenser



Special functions

- **Disaster recovery** – The device continues to run even in the event of a CPU failure
- **Safety control** – The device continues to operate even if the control probe breaks
- **Key test** – The user can simulate alarm conditions with a simple key pressure
- **Environmental adaptability** – Separate management of the condenser fans
- **Info test** – The functional test performed in the factory can be repeated by the user

HTS Controller



Availability

- ULT -80°C Line
- ULT -80°C Variable Speed Version
- LT -40°C/-50°C Line
- HAEMO Blood Banks
- KLAB Refrigerators and Freezers
- KFS
- KBPF
- KFDE
- Refrigerators/Freezers Combo



ULT/LT Vertical



KFS Line



ULT/LT Chest Type



KLAB R/F/RF



HAEMO Blood Banks

PL ADVANCED Controller



PL ADVANCED Controller



Main features

- 7-segments display
- Real time temperature
- $\pm 0.1^{\circ}\text{C}$ sensibility
- Data logger function with automatic recording of temperatures and alarms
- Internet connectivity
- Wi-Fi capabilities
- Cloud management
- Dedicated app for monitoring
- Alarms with mobile notifications



Optionals

- LAN module
- Electric lock for door opening with PIN / badge



PL ADVANCED Controller



Alarms

- High/Low temperature
- Power failure (with backup battery)
- Open door
- High condenser pressure
- Faulty probe
- Compressor timing failure
- High condenser temperature
- Communication failure with motherboard
- Pressure switch intervention failure
- Pressure transducer intervention failure



Special functions

- **Disaster recovery** – The device continues to run even in the event of a CPU failure
- **Safety control** – The device continues to operate even if the control probe breaks
- **Key test** – The user can simulate alarm conditions with a simple key pressure
- **Environmental adaptability** – Separate management of the condenser fans
- **Info test** – The functional test performed in the factory can be repeated by the user

PL ADVANCED Controller



Availability

- ULT -80°C Line
- LT -40°C/-50°C Line
- KLAB Refrigerators and Freezers
- KBPF
- KFDE



ULT/LT Vertical



KLAB R/F



ULT/LT Chest Type



KBPF



KFDE

NG Controller



NG Controller



Main features

- 7-segments display
- Real time temperature
- $\pm 0.1^{\circ}\text{C}$ sensibility
- Data logger function with automatic recording of temperatures and alarms
- USB port



Availability

- Refrigerators



Alarms

- High/Low temperature
- Power failure (with backup battery)
- Open door
- Faulty probe



Glass Refrigerator



Solid Refrigerator

Industry 4.0

HTS and PL ADVANCED controllers



APP

- iOS/Android supported
- PL ADVANCED controller
- Direct Wi-Fi connection
- Multiple systems control
- Data download
- Parameters customization



Cloud

- All browsers supported
- PL ADVANCED/HTS controller
- Multiple systems control
- Data download
- Parameters customization
- Data storage on cloud