



A smart configurable HVAC controller using
drop down list to select parameters.

intelliTeso PC3270

Controller Hardware Overview

The PC3270 HVAC controller is a rail hardened and easy to configure controller, promoting a “plug n play” concept with a highly user friendly web interface providing users with the capability of selecting and configuring their HVAC system using drop down lists.

PC3270 Features and Benefits

- Up to 800 Mhz Processing power
- 4GB storage memory available for data logs and event logs
- Real Time Clock
- Support for:
 - up to two Refrigeration circuit,
 - up to two Supply fans,
 - up to two Condenser fans,
 - up to four Compressors,
 - up to two Heater banks,
 - up to two Solenoid valve,
 - one Fresh air damper,
 - one Smoke detector,
 - up to four 5KΩ NTC thermistor,
 - up to two High Pressure transducer,
 - up to two Low Pressure transducer.
- High Speed Ethernet for downloading data logs and event logs.
- One isolated RS485 serial communications port for PLC to PLC communications



- 24VDC input power, in accordance with EN 50155.
- Operating temperature range: -40°C to +85°C.
- Connections via cage clamp plug socket connectors.
- Conformal Coating.
- EN 50155 Compliant.

Support for Train Management System Communication protocols:

↓ Choose from a wide range of communication modules

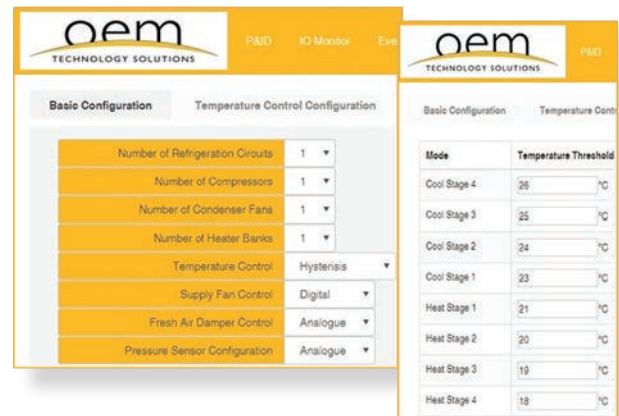
Communications Modules		
IO3610	CANOpen Slave	1 x CANOpen slave port, isolated (2 x DB9), 16 x Tx PDO's and 16 x Rx PDO's
IO3611	CANOpen Master	1 x CANOpen master port, isolated (2 x DB9), 16 x Tx PDO's and 16 x Rx PDO's
IO3612	J1939	1 x J1939 port, isolated (2 x DB9), 16 x Tx PGN's and 32 x Rx PGN's
IO3615	Dual Port CANOpen Slave	2 x CANOpen slave ports, isolated (2 x DB9), Each port supports 16 x Tx PDO's and 16 x Rx PDO's
IO3616	Dual Port CANOpen Master and Slave	1 x CANOpen master port isolated (1x DB9), 1 x CANOpen slave port isolated (1 x DB9), Each port supports 16 x Tx PDO's and 16 x Rx PDO's
IO3617	Dual Port J1939	2 x J1939 ports, isolated (2 x DB9). Each port supports 16 x Tx PGN's and 32 x Rx PGN's
IO3618	Dual Port CANOpen Slave and J1939	1 x CANOpen slave port isolated (1x DB9), supporting 16 x Tx PDO's and 16 x Rx PDO's, 1 x J1939 port isolated (1 x DB9), supporting 16 x Tx PGN's and 32 x Rx PGN's
IO3619	Dual Port CANOpen Master and J1939	1 x CANOpen master port isolated (1x DB9), supporting 16 x Tx PDO's and 16 x Rx PDO's, 1 x J1939 port isolated (1 x DB9), supporting 16 x Tx PGN's and 32 x Rx PGN's
IO3620	MVB, Type EMD	1 x MVB port, EMD (Electrical Middle Distance) interface (2 x DB9)
IO3625	MVB, Type ESD+	1 x MVB port, ESD+(Electrical Short Distance+) interface (2 x DB9)
IO3630	LONWorks	1 x LONWorks port (plug/socket), 1 x 5-wire RS232 port (DB9)
IO3650	MELCO 20mA	1 x Mitsubishi Electric Corporation 20mA TMS Interface (2 x DB9)
IO3660	MELCO HDLC	1 x Mitsubishi Electric Corporation HDLC TMS Interface (2 x DB9)
IO3670	FIP	1 x FIP port, isolated (2 x DB9)

PC3270 Plug n Play HVAC System Configuration

Simply configure your HVAC system using a drop down list for a number of different possible HVAC system combinations.

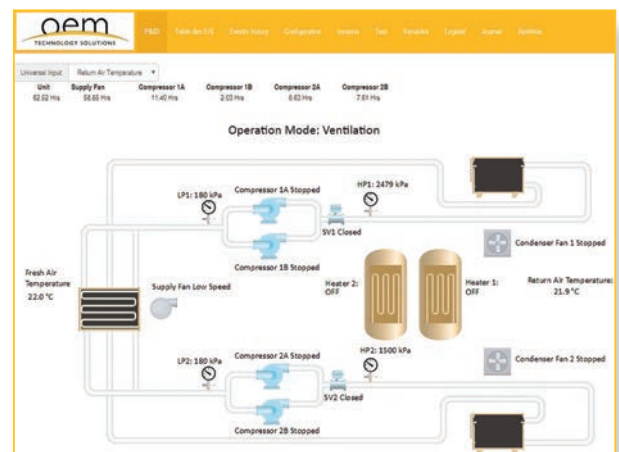
Configuration

- Configure the desired HVAC system using a drop down list to select number of configurable Refrigeration Circuits (1 – 2), compressors (1 – 4), condenser fans (1 – 2), heater banks (1 – 2)
- The configuration also allows to select the temperature control algorithm to define set points (Hysteresis or Fuzzy Logic), supply fan control (digital or analogue), fresh air damper control (digital or analogue) and pressure sensor configuration (digital or analogue).



Features and Benefits

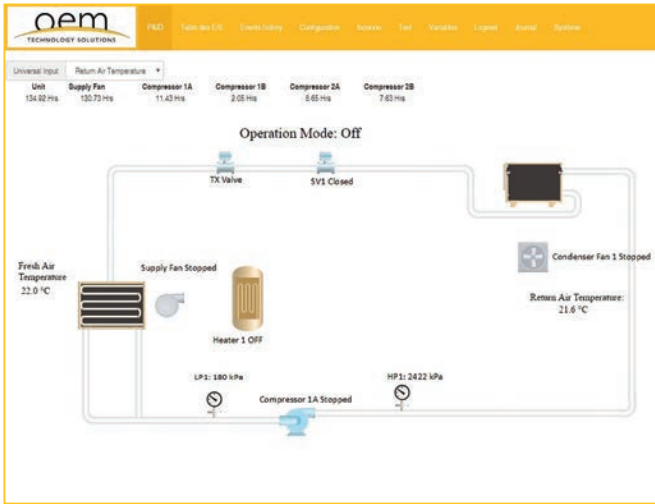
- Fully configurable HVAC system.
- No software development required.
- Auto creation of P&ID diagram based on configuration selected.
- Graphical representation of Condition Based Monitoring events.
- Real-time animation of the devices can be observed for easy visualization of equipment in operation.
- Customize your company logos and colour scheme of the web interface for a more personalized look and feel by a simple drag and drop operation within the web interface.
- Multiple stages of cooling to achieve energy efficiency.
- Internal safety mechanism for protection of compressors and refrigeration circuit against high and low pressure.
- Compressor load sharing implementation to elongate the life of the compressors by switching load between different compressors according to the load requirement.



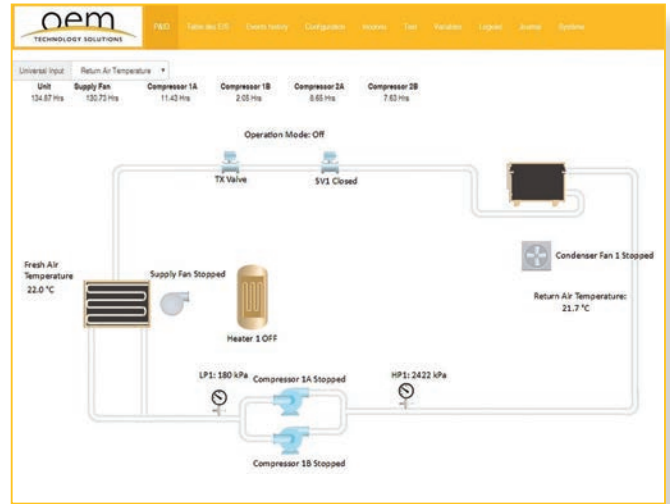
Support Across Different Platforms

- The web interface is supported across a wide range of platforms including windows, android and iOS.

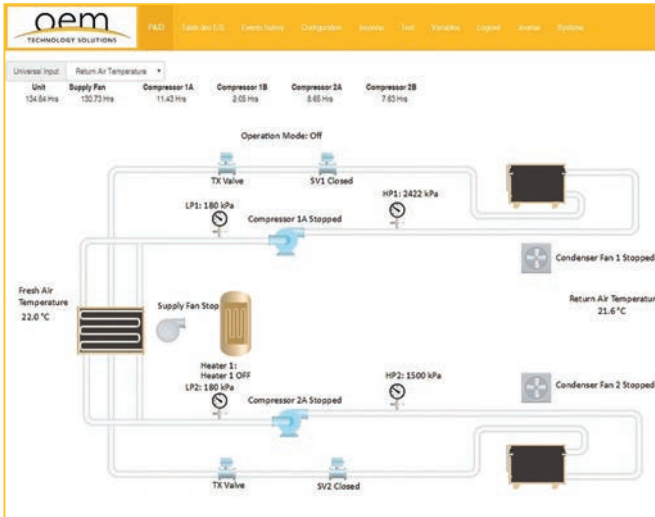




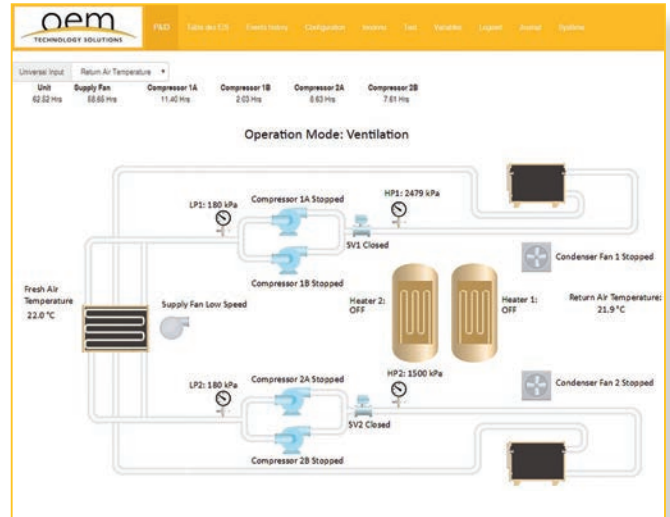
1 Circuit, 1 Compressor & 1 Heater Configuration



1 Circuit, 2 Compressors & 1 Heater Configuration



2 Circuits, 2 Compressors & 1 Heater Configuration



2 Circuits, 4 Compressors & 2 Heaters Configuration



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