

New BLACK PEAR BMS Interface

Key Features

1. Connects directly to 2-wire HVAC bus
2. Integrated LCD display
3. Replaces central controller
4. Supports: Modbus, BACnet & Trend products
5. Connects up to 64 indoor units

TOSHIBA Would like to announce the New **BLACK PEAR** BMS Interface developed and manufactured in partnership with Toshiba Carrier UK Limited.



Description

The **BLACK PEAR** Toshiba HVAC controller is the most versatile on the market, connecting directly to the 2-wire HVAC bus. The integrated LCD display provides an engineer's interface for local control, removing the need for a central controller and separate interface. The result saves time, space and commissioning is made simple with free USB based configuration software. The units will operate on systems with or without a central controller and supports Modbus, BACnet or Trend protocols. The device is easily configured to communicate with units in the same way that a standard central controller communicates with connected units. When the controller is powered it scans the entire network for all connected indoor units. The keypad controller can be used to operate all indoor units. This feature is very useful in the event of a BMS failure in providing and enabling continuous communication. The controller can be configured by a PC interface to group units and name zones.

Application

The device will communicate with the following open Protocols / BMS systems

BACnet I/P

Modbus RTU or Modbus/TCP

TREND via an outstation

Limitations

The device is limited to standard network restrictions applied to the TCC- link network with a maximum indoor unit count of 64 units.

Dimensions

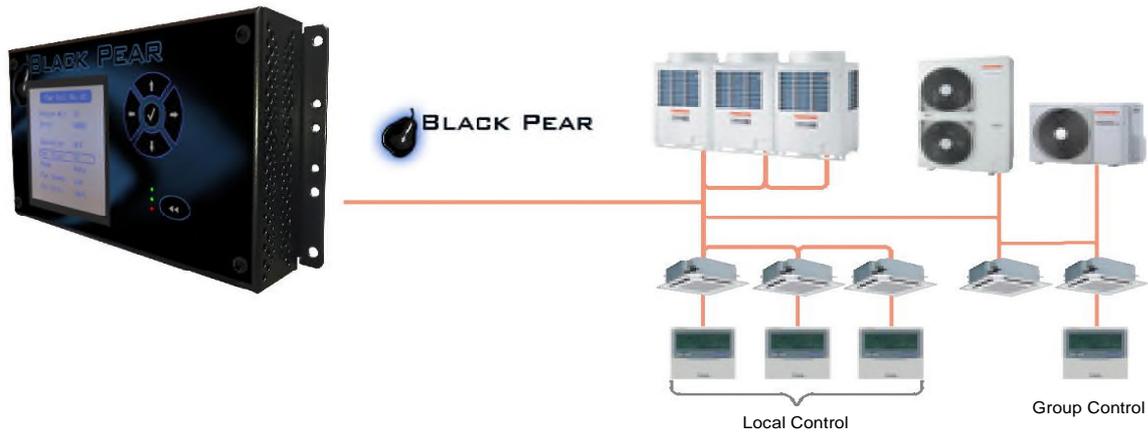
Length	211mm
Height	118mm
Depth	38mm

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Circuit Diagram



Specifications

Protocols Supported

- BACnet I/P
- Modbus RTU or Modbus/TCP
- TREND Via and Outstation
- 2 core screened 1.5 or 2.5mm depending upon network length
- Ethernet or Serial
- 62mm x 62mm with navigational buttons

TCC Link U3/U4

BMS System

Backlit Graphic Display

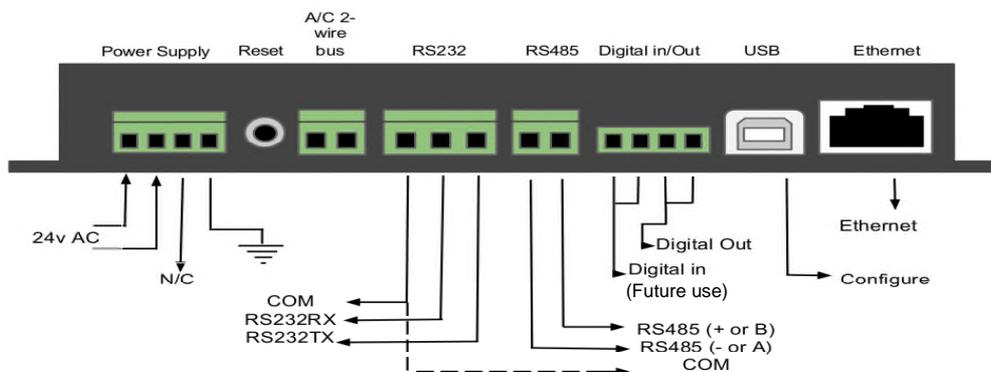
Power

Air Conditioner Connection

Communications Platforms

Control

- 24Vac 5VA
- 2-wire T1 & T2 communication bus
- Ethernet
- RS232, RS485, 2-wire Network Bus
- Set point, return air, mode, fan speed
- R/C inhibit, error code, on/off, air direction



Retail Price

£ 3,120.00 List ex-works