



Enclosure	Flame Retardent ABS Plastic
Dimensions (H x W x D)	56 x 147 x 115 mm
Weight	400g
Supply Voltage	24VAC +/- 10%
Consumption	10VA Max
Connection	2.5mm Max
RTC Backup	48 hrs Max

## Communication

Comms Field Level	Hardware	RS485
	Topology	Daisy Chain
	Protocol	Modbus RTU Master
Comms Network Level	Ethernet	100 Base Ethernet
	Protocol	Modbus TCP, BACnet, Lonworks
ClimateHub	Yes	HUB TCP / HUB API
LightingHub	Yes	HUB TCP / HUB API
DeviceHub	Yes	HUB TCP / HUB API
IAQHub	Yes	HUB TCP / HUB API
EnergyHub	Yes	HUB TCP / HUB API
Web Server	Yes	

## Key Features

- Activity definable User Groups for up to 100 users (up to 100 Groups)
- Site View, Block View, Room View
- Performance Tiles for each thermal zone (FCU / VAV, Free Match) including state, alarms and trends
- Control Panel for each thermal zone
- QR Code generation of point device labels for on-site QR Code scanning for direct login and navigation to browser display on mobile phone or tablet

# Feature Summary

- Dashboards with over 20 gadgets, including containers to embed graphics, trends, schedules and remote HTML content
- Traditional graphic displays for animated systems or floor plans
- Internally maintained schedules with sunrise/sunset and staggered starts
- Trend collection, display and export
- Runtime accumulation with email notification
- Alarm condition monitoring with email notification
- Calculated point values (average, min, max, etc)
- Drag and drop configuration to reduce setup costs
- Database of up to 100 users and 100 user groups
- Multiple simultaneous users
- Activity log for tracking important user actions
- Template system for quickly cloning points, dashboards, devices or entire networks
- Flexible point addressing system allows access to most proprietary structures, bit fields and objects
- Calculations may be performed on data points when read and/or written (e.g. Deg. F to Deg. C or scaling)
- Support for up to 4,000 tree nodes which can be any combination of points, dashboards, trends, etc.
- Modular expansion with each module supporting 180 FCU's or Thermal Zones

## EnergyHub Advanced Features

- Dynamic-Performance-Band for up to 180 FCU's or Thermal Zones
- Site-Performance-Band for scaled load management
- Up to 180 Hierarchical Load Blocks with simple organisational interface
- Solar Inverter and Tariff Count Integration
- Target-Drag setting per load block
- Occupancy based setback targets (temperature and lighting)
- Advanced scheduling
- Supports Site Wide Cap & Trade
- CT Metering, Calculated Metering, Apportionment