VRF TWIN

Managing the systems Utopia Prime, IVX, and VRF





Selection guide Central controls

		airCloud Pro	PSC-A32MN	PSC-A64GT	CSNET Lite	CSNET Manager 2
	Indoor unit per interface	64 indoor units	32 remote control units 160 indoor units	64 remote control units 160 indoor units	64 indoor units	64 indoor units
	Outdoor unit per interface	16	32	64	64	64
	Interface per H-Link	1	8	8	1	1
Technical data of the gateway or interface	Max. amount of IDU per user interface	Unlimited (with multiple interfaces)	160	160	64	1024
	Cloud access	•	-	-	-	-
	Web application	•	-	-	•	•
	Mobile app	•	-	-	-	-
	Standard connectivity	Ethernet	-	-	Ethernet	Ethernet
Connectivity	4G connectivity	Option	-	-	-	-
	Interface updated remotely online	•	-	-	•	•
	Main access	Cloud	Local	Local	Local	Local
	Local setup access: can be used to control units in a backup solution if access to the server is no longer available	● limited features	•	•	•	•
System access	Remote access	•	-	-	•	•
	Type pf server	Cloud	-	-	Local web server	Local web server
	Internet connection mandatory	•	-	-	-	-
	Multi-user management	•	-	-	•	•
User and site management	User accounts with limited access to indoor units / functions	-	-	-	•	•
	Multi-site management	•	-	-	-	-
	Basic indoor unit control	•	•	•	•	•
	Installation dashboard	•	-	-	•	•
	Weekly programming	•	-	-	-	-
Basic functions	Annual programming	-	-	-	•	•
	Reset filter sign	•	•	•	-	-
	Alarm log	•	•	•	•	•
	Min./max. setpoint temperature	-	•	-	•	•
	Outdoor unit power use setback (manual, contact, or programmable)	-	•	-	•	•
	Cumulative operating time	•	•	•	-	-
	System status (running data for outdoor unit and indoor unit)	•	-	-	•	•
	Data archive	-	-	-	•	•
	Order log & direct data	-	-	-	•	•
Advanced features	Electrical consumption readings for Hitachi indoor unit	•	-	-	•	•
	Consumption readings from third-party watt meters			-	•	•
	Interlock	-	-	-	•	•
	Comfort features (Gentle Cool, heat draft (winter comfort) SetBack (reduced heating/Cooling mode))		-		•	•
	Alarm notifications	Expected in 2021	-	-	•	•
	Local server management	-	-	-	•	•
	Smart control and advanced maintenance	Expected in 2021	-	-	-	-
	Input/output switches	-	•	•	•	•
BMS connection	Tenant billing	Expected in 2021	-	-	•	•
	BMS connection	Expected in 2021	-	-	•	•

Selection guide to controls

Specific remote controls

Hard wired

PC-ARFP1E



Intuitive interface.

Manage 1 to 16 indoor units as masters and/or slaves.

Built-in temperature sensor.

Adjust optional settings.

New features

- To optimize energy consumption: ECO button, energy consumption display.
 For more comfort: setpoint adjustable to -/-0.5°C, GENTLE COOL function,
- frost protection function, night setback for outdoor unit.
- For more flexibility: new Master/Slave function which allows multiple indoor units to have the mode changed and be set by one remote control.

Ideal for maximum flexibility in all commercial applications.

Simplified wired PC-ARH1E



Manage 1 to 16 indoor units as masters and/or slaves. Simplified access to essential functions. Adjust optional settings.

- For more comfort: setpoint adjustable to +/-0.5 $^{\circ}\text{C},$ frost protection function. Ideal for hotels, shops, when simplicity is key.

Infrared PC-AWR



Manage 1 to 16 indoor units as masters and/or slaves. Simplified access to key functions. Infrared receiver function.

IR receiver	Compatibility with indoor units		
Include with the unit	Wall units	RPK-FSRM / RPK- FSRHM	
PC-ALHC1 PC-ALH3 PC-ALHD1	4-way 600x600 cassette unit 4-way 800x800 cassette unit 2-way cassette unit	RCIM-FSRE RCI-FSR RCD-FSR	
PC-ALHZF1 (external)	Ducted units Consoles	RPI / RPIM / PPF / RPFI / RCI RCIM / RCD / RPK / RPC	
PC-ALHP1	Ceiling units	RPC	

Ideal for renovations.

Centralised controls

Touch screen controls

PSC-A32MN PSC-A64GT



Manage up to 160 indoor units:

- PSC-A32MN > up to 32 groups of 16 indoor units, max. 160.
- PSC-A64GT > up to 64 groups of 16 indoor unit, max. 160. Up to 8 touch controllers per H-Link bus.

5" (PSC-A32MN) and 8.5" (PSC-A64GT) color touchscreen.

Up to 100 stored alarms.

Available contacts: start/stop, fault report, function report. Demand control possible from external contact to reduce capacity. In the case of using PSC-6RAD, max. 16 units allowed.

Ideal for monitoring small and medium-sized systems.

Building management systems

	CSNET Manager 2		CSNET Lite	airCloud PRO
			Coeff to Coe	HITACHI
Range	with screen	without screen (web)	web	web
User interface	10" or 15" high-resolution touchscreen CSNET Manager 2T10 or CSNET Manager 2T15	Interface without screen, access data on the PC, tablet or smartphone on all CSNET, 2T10, 2T15 (as well as the screen) and on the 2SL (model without screen)	PC, tablet, smartphone	PC, tablet, smartphone + mobile app / web app
H-Link interface	HC-A64NET CSNET Lite		CSNET Lite	HC-IOTGW
Compatibility	H-Link units: - VRF & IVX Prime - Hydrofree - YUTAKI - Utopia Prime RAC units with adapters:			Main HLINK units: - VRF / IVX - RAC units with adapters (some limitations)
Functions	- Version 2.0 of the CSNET software (managing the Yutaki, server room function, pulse meters on the CSNET Lite, electricity and water metering for third-party systems, etc.) - VRF + air/water heat pump unit control (H-Link systems) - Multi-tenant access with specific rights/privileges for different functions or indoor unit control - Advanced control functions (Comfort, Interlock) - Multi-tenant installations, flexibility for office applications - Energy metering for VRF units - third-party systems - Use of dry input/output contacts on indoor units or CSNET Lite - Connection to the BMS system (Modbus, BACnet, or KNX)		- Same features as CSNET Manager, applied to small or medium-sized systems - Manage up to 64 indoor units	- Monitor units VRF, IVX, and Utopia (HLINK unit) - Simple unit control with Web or mobile applications - Alarm notifications and alarm log available for remote maintenance - Perfect solution for small public applications and businesses needing basic control functions
Applications	Medium and large-size systems		Small and medium-size systems	Small and large-size systems

BMS interfaces

MODBUS interface HC-A16MB HC-A64MB - Up to 16 / 64 indoor units per interface. - Optional function management, view outdoor unit settings.







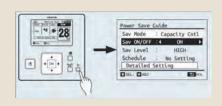
Selection guide for Individual remote controls

		Advanced wired controller PC-ARFP1E
Selection	Max. number of indoor units per remote control	1 to 16
Selection	Type of master/slave connection	Non-polarized bus
	Start/Stop	•
	Mode selection	•
	Auto Heating/Cooling mode	● (best used with 3-pipe VRFs)
	Dehumidification mode	•
	Set point selection	● (19°C to 30°C in Cooling mode / 17°C to 30°C in Heating mode)
	Adjust set point by +/-0.5°C	•
	Adjusting the fan speed	● (up to 5 according to the indoor unit type)
Main functions	Louvre control	•
	Individual louvre control	•
	Weekly timer	• (Up to 5 daily programs)
	Daily timer	•
	Holiday mode	-
	ECO mode	•
	Auto-restart after a power outage	•
	Built-in temperature sensor	•
	Lock function mode	•
	Lock the setpoint temperature ranges	•
	Lock the remote control buttons with the exception of Start/Stop	•
	Stop the fan in Thermo OFF Heating mode	•
	Stop the fan in Thermo OFF Cooling mode	•
	Thermistor selection (rcs, return air, average)	•
	Night set back (outdoor unit at lower noise level)	•
Advanced	Temperature set back: in Heating mode or in Cooling mode	•
management features	Gentle Cool (summer comfort): limit the air off Temp° in Cooling mode	•
	Auto Boost: rapid rise in temperature at startup	•
	Manage the motion sensor	•
	Adjust the temperature differential in Heating mode	•
	Show ambient room temperature	•
	Show outside temperature	•
	View the estimated energy consumption of the outdoor unit	•
	Demand control (auto or by zone)	•
	Error code log	• (max. 30)
	After-sales contact details	•
	Information: defrost in progress	•
Advanced	Information: filter needs cleaning	•
maintenance features	Self-test indoor unit and remote control electronic boards	•
	Check mode (view system parameters)	•
	Test Run mode	•
	Setting optional functions	•

ECO mode

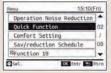
Easy to use, this key takes you straight to "Energy Saving"

- You can access the following options:
- Activation / Deactivation
 3 energy-saving levels: HIGH> MED> LOW applied continuously or following a weekly schedule.





Simple functions to customize your comfort: GENTLE COOL and Auto Boost



When you quickly need to reach a room's set temperature, select Auto Boost.

When you want to ensure more comfort by avoiding Cold drafts in summer, select the Comfort function called GENTLE COOL and customize your comfort: HIGH>MED >LOW.

Setpoint adjustable by +/- 0.5°C

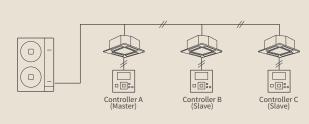


Show outside or room temperature



Define the master remote control to make the changeover even easier

New feature accessible with remote control PC-ARFP1E: change the mode from any 'master' remote control.

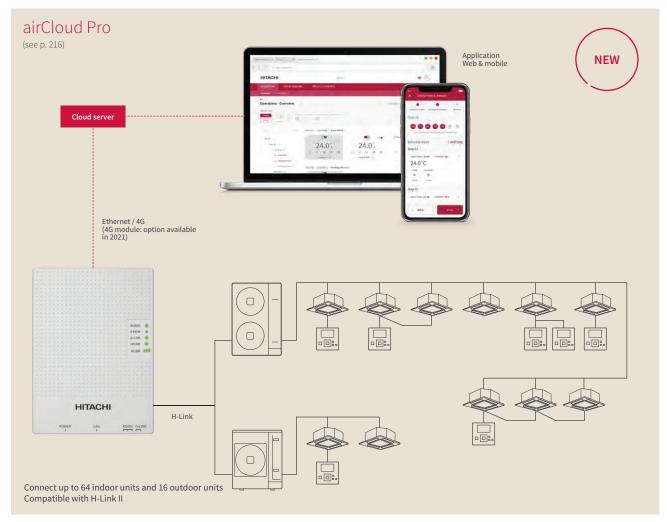


Selection guide Centralised controls Touchscreen or web based

Suitable for different sized projects allowing for faster monitoring, setup, and maintenance.







		Centralised, touchscreen PSC-A32MN	Centralised, touchscreen PSC-A64GT	
		Manage up to 32 units of 16 indoor units, max. 160.	Manage up to 64 units of 16 indoor units, max. 160.	
Selection		5" color touchscreen	8.5" color touchscreen	
		Up to 8 centralized controllers per H-Link bus	Up to 8 centralized controllers per H-Link bus	
	Access levels			
	Define groups	2 (user, professional)		
	(set of indoor units connected on the same remote control)	•		
	Define blocks (sets of groups)	•		
	Mode selection	• by indoor unit / unit or block		
	Dehumidification mode	•		
	Set point selection	• by indoor unit / unit or block		
	Adjust set point by +/-0.5°C			
Functions Key functions	Adjusting the fan speed	• by indoor uni	t / unit or block	
	Louvre control	• by indoor unit / unit or block		
	Individual louvre control			
	Weekly timer	● (Up to 10 daily programs)		
	Daily timer			
	Holiday mode	-		
	Filter indication (light on according to timer)	• by indoor unit		
	ECO mode			
	Lock remote control apart form the Start/Stop button	● by indoor unit / unit or block		
	Limit and lock setpoint ranges (in Heating mode / in Cooling mode)	• by indoor unit / unit or block − on PSC-A32MN only		
	Night setback (outdoor unit at lower noise level)			
	Temperature setback			
Advanced	GENTLE COOL function (summer comfort)			
management functions	Adjust the temperature differential in Heating mode			
	Auto Heating/Cooling mode	● by indoor unit / unit or block		
	View energy consumption			
	View operating hours	• by indoor unit/ unit or block		
	Demand control	• (reduce the electical consumption of the outdoor unit following a weekly schedule or external signal (contact on the central controller))		
	Error code log	● (up to 100: show error code, date and time of the failure, unit(s) affected		
Advanced	After-sales contact details	•		
maintenance features	Reset Filter LED	● by indoor unit / unit or block		
	Set optional functions (installer menu)			

airCloud Pro

You're in control



IoT technology

24/7 control at your fingertips, via your smartphone app or web

Intuitive simplicity

airCloud Pro is designed to make it easier for you. This openaccess mobile app makes it easier than ever to manage your airconditioning systems.



Control from anywhere

Enjoy remote access from your smartphone or PC. airCloud Pro lets you remotely control an unlimited number of variable coolant flow systems (VRF) from a single app, which means you can stay right where you are.



Technical speification Co **HC-IOT GW** Dimensions (W x H x D) 138 x 200 x 41 mm Net weight 540 g 16 outdoor units + 64 indoor units Connection capacity Power supply 230V | 50Hz Max. power consumption 1 H-Link, 1 port RS485 Communication port Internet connection Local network (Ethernet) or 4G3 External interface (data storage) 1 micro SD card slot

A simple yet powerful tool

Make your life easier



Control either the entire VRF system or specific zones all at the touch of a

Simplified troubleshooting

Clear error code history, brief summary of the problem, and reminder to clean filter.

Smartphone alerts

To report any serious malfunction.

Flexible user management

Add unlimited users and customise access restrictions.

Save more energy

Energy consumption data

View your electricity consumption in simple graphs to monitor the units with heavy-usage in your system (available in 2022).

Intuitive planning

Plan service visits around your working day and exceptions such as holidays.

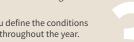
Individual controller lock

Block any inappropriate use by occupants.

Create a pleasant climate

Easily adjust the temperature, fan speed, and operating modes for complete comfort and an ideal ambient climate throughout the

A built-in weather forecaster helps you define the conditions most suited to different indoor spaces throughout the year.







Plug & play system

Ideal applications

The airCloud interface makes installation easy. Just connect to airCloud via the 3G/4G2 or Ethernet network and pair your VRF systems by scanning the QR code. With automatic detection of indoor units and an optimised installer view, configuring your site and zones has never been quicker.



+ data security

- The highest standards: Protocol TLS v1.2, HTTPS 2038 encryption
- Minimal personal information requested: You only need your name, email address, and phone number to log in
- Regularly updated and enhanced with new features. airCloud Pro ensures you're always up to date.

How airCloud Pro works



Ethernet or 3G/4G network²







To your VRF

system

airCloud interface

Compatible with old and new Hitachi variable refrigerant flow systems (1)





airCloud Pro features

		airCloud Pro	
	Indoor units per interface	64 indoor units	
	Outdoor units per interface	16	
	Interface per H-Link	1	
Interface features	Max. amount of indoor units per user interface	Unlimited (with multiple interfaces)	
	Cloud access	•	
	Web application	•	
	Mobile app	•	
	Prime connectivity	Ethernet	
Connectivity	4G connectivity	Option (available second half of 2021)	
	Interface updated remotely online	•	
	10 years of connection fees	•	
	Main access	Cloud	
	Local access or emergency access to configuration if server access is down	With limited features	
System access	Remote access	•	
	Type of server	Cloud	
	Internet connection mandatory	•	
	Multi-user management	•	
User and site management	User accounts with limited access to indoor units / functions		
	Multi-site management	•	
		Start/Stop	
		Heating/Cooling mode	
	Basic indoor unit control	Setpoint temp.	
	Basic indoor unit control	Fan speed	
		Remote control lock	
Basic functions		Setup remote control groups	
	Zone management	Create unlimited zones	
	Installation dashboard	•	
	Weekly programming	•	
	Reset filter sign	•	
	Alarm log	•	
		English	
	Analanguages	French	
Languages		German	
ranguages	App languages	Italian	
		Portuguese	
		Spanish	

Selection guide CSNet centralized controls

The CSNET range comes in two versions: a WEB version that offers flexibility and a touchscreen version for usability.

This range is ideally suited to the needs of any size project:

from small to large commercial buildings. It offers more functionality than any other range on the market as standard without add-ons. Installation is quick and easy. Guided configuration makes things even easier.

Central control

Centralised control with touchscreen

CSNET Manager 2T10 / 2T15 + HC-A64NET interface



Manage up to 1,024 indoor units.

Manage 1 to 64 indoor units per HC-A64NET gateway and up to 16 gateways via CSNET. The HC-A64NET gateway can be replaced with CSNET Lite.

- Comes with a 10" (2T10) or 15" (2T15) screen. - True maintenance tool: mail notifications, alarm log, data archive.
- Multi-site remote management and control tool with the web server function.
- Tool for managing and breaking down energy consumption.
- Interlock option: smart programming of IFTTT actions
- Compatible with Fidélio software: perfect for the hotel industry. Interface compatible with smartphones, tablets, PCs connected to the local network or or via the web.

New features

- Next-generation touchscreen for a more enjoyable user experience.
- New, more intuitive responsive user interface that offers the same features on any screen
- Wizard function for easier, faster commissioning.
 Master/slave operation of indoor units: no electrical wiring needed for a more flexible and less expensive installation.

Ideal for managing large installations with maximum comfort for occupants and ease of access for maintenance teams

Centralised control, Web

Wall bracket – Part no.: WALL SUPPORT 2 Base – Part no.: STAND SUPPORT

CSNET Manager SL + interface HC-A64NET

Accessory DIN rail support

version



Manage up to 1,024 indoor units.

Manage 1 to 64 indoor units on the HC-A64NET gateway and up to 16 gateways via CSNET. The HC-A64NET gateway can be replaced with CSNET Lite.

With the same features as the CSNET Manager 2T10/2T15, this SL version is a web

System control is done on smartphone, tablet, or PC only, connected to the local network or via the web.

- More flexible installation: Ethernet port, 2 USB ports, HDMI port.

Ideal for managing large facilities.

Centralised control standalone web version **CSNET Lite**



Standalone gateway to run up to 64 indoor units.

Has limited functionality of CSNET Manager 2.

Compatible with smartphones, tablets, PCs connected to the local network or via the web. For multi-site monitoring, CSNET Lite is compatible with CSNET Manager 2T10/2T15 and SL

Ideal for managing small and medium-sized facilities.



With this CSNET range, you can manage 1 to 64 indoor units on the interface and up to 1024 indoor units, locally or remotely on the WEB.

CSNET Manager 2 is a management and monitoring interface for Hitachi heating and air-conditioning systems. It features new touchscreen technology as well as a responsive display, for an improved user experience.

The CSNET Manager 2 T10 / 2 T15 range, includes 2 screens, 10" and 15".

The system is managed on two H-Link interfaces of your choice, HC-A64NET or CSNET Lite, capable of managing up to 64 indoor units. CSNET Manager 2 can manage up to 16 H-Link interfaces.

For installation extensions, CSNET Manager 2 is also compatible with the old CSNET Web (limited for certain options).

The 320 GB storage capacity allows you to store a virtually unlimited amount of system applications and histories.

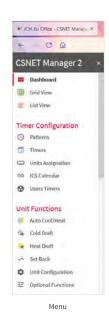
Selection guide to CSET centralized controls

WEB version with touchscreen CSNET Manager 2T10/ 2T15 Max. number of indoor units per H-Link interface Up to 64 Max. number of indoor units Up to 1,024 64 outdoor units per interface Max. number of outdoor units • 2T10(10") / 2T15 (15") Touchscreen Selection Web server Compatible user interfaces Smartphone Tablet PC equipped with a web browser MODBUS interface included as standard KNX - BACNET via dedicated interfaces Compatible BMS Number of user access levels Unlimited Create monitoring zones (e.g multiples tenants) Energy consumption monitoring Energy consumption distribution breakdown Demand control Compatible with MICROS FIDELIO Advanced management features Unlimited annual programming integrating public holidays and leave Annual calendar synchronized with Outlook • with up-to-date HLINK interfaces (CSNET Lite v2.0 or HC-A64NET v2.0) Set the optional functions of indoor units Master/Slave control MODBUS compatibility included Interlock function (IFTTT concept) Hotel applications (window contact & temperature setback settings) Floor plan schematic upload • (image format) Advanced display features Virtual individual remote control • (control, display ambient T) Set Back (frost protection) GENTLE COOL (summer comfort) Advanced comfort features Heat Draft (winter comfort) Night setback (lowers noise of outdoor unit) Fault notifications by email Operating history 2Gb Error log 6 months Emergency stop button Maintenance features Fault indicator button Check mode (view system parameters) Refrigeration diagram showing technical data Wizard (commissioning assistant)

WEB version Standalone WEB version CSNET LITE **CSNET Manager 2 SL** ----CSNET LITE Up to 64 Up to 1,024 Up to 64 64 outdoor units per interface 64 outdoor units Smartphone Tablet PC equipped with a web Smartphone Tablet PC equipped with a web MODBUS interface included as standard KNX - BACNET via dedicated interfaces MODBUS interface included as standard KNX - BACNET via dedicated interfaces Unlimited Unlimited • with updated HLINK interfaces (CSNET Lite v2.0 or HC-A64NET v2.0) • (limited actions) • (image format) • (manage, display ambient T) • (manage, display ambient T) 256 Mb 6 months 6 months

CSNET Manager 2: Advanced management tool

New user + ergonomic interface



A unique menu zone for more intuitive navigation

An intuitive dashboard: 3 available formats



Dashboard



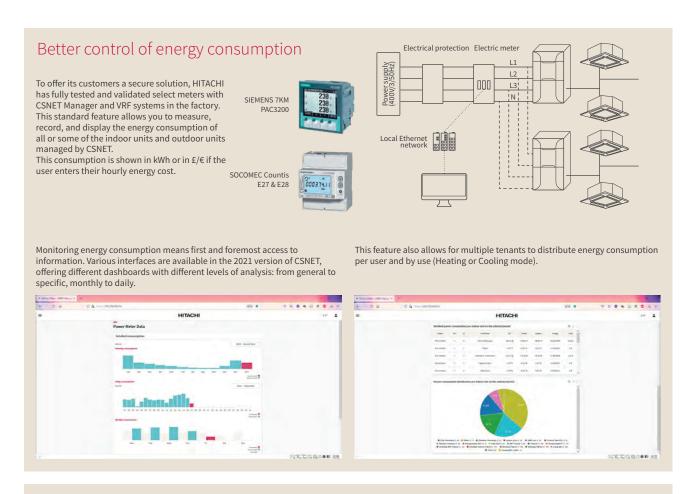
Icon vie



CSNET Manager 2: Advanced management tool

Stand out with quality service

Maintenance is essential because it ensures a long term life cycle of the system. Preventing faults and being responsive in the event of a fault by reducing intervention time with remote analysis tools are the key to meeting end user requirements.



On board security: Interlock function

The embedded interlock function, standard in all CSNET interfaces, allows a multitude of interlock scenarios to be easily programmed, providing automated safety in more industrial applications.

For example, a backup air-conditioning unit installed in a server room can be automatically switched on in case of a temperature deviation: If the ambient temperature > 20°C unit 2 will start up with a set point of 18°C.

New feature

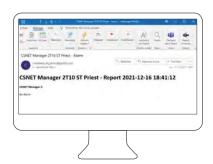
Server room management feature in CSNET Manager version 2.0



Fault alerts

An email server can send an email alert if an error code appears on the system.





An alarm log is automatically generated by CSNET Manager 2 as soon as the first fault occurs. This log can be exported at any time.



Have remotely accessible analytics tools via the WEB SERVER function for PC, tablet, or smartphone

Access the installation's operating history. These configurable reports allow the user to plot graphs monitoring how the system performs at chosen settings and to create intervention reports.



Investigate a discomfort complaint reported by a customer and solve it remotely by changing operating settings.



A new Customer Experience with a unique and customizable level of comfort

Air off temperature setting, GENTLE COOL

This feature provides unsurpassed comfort levels for every user in Cooling mode by giving them the option to set their own tailored air off temperature.



- With CSNET, Cold drafts that can be a source of discomfort in the summer are a thing of the past in offices, thanks to the option of selecting a high air off temperature.
- With CSNET, an occasionally occupied meeting room can be quickly brought up to temperature by using an unlimited annual schedule synchronized with the calendar in Outlook.

Hotel function

This intelligent on-board programming function, included as standard in all CSNET interfaces, can combine several input signals triggering actions according to IFTTT logic.



- This function can customize comfort levels in rooms, both in summer and winter. When a guest arrives in their room (key insertion), a predetermined setpoint temperature can be activated.
- When opening the bedroom window, the indoor unit can be stopped or the set point adjusted.

Application for hotel rooms

- The CSNET is also compatible with MICRO FIDELIO software.

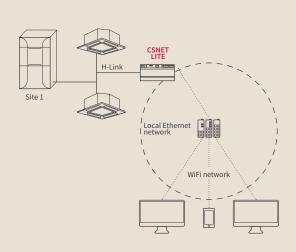


Manage your spare parts with Hi Parts Log in any time, 24/7.



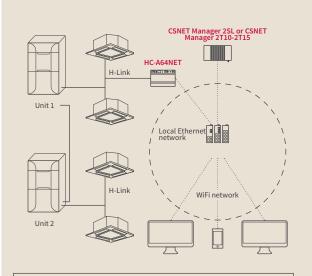
CSNET wiring

An example of a small site setup (< 64 indoor units)



Site 1: Access the local network with a **screenless interface**. Access from a computer, a smartphone on the same local network, or via the web.

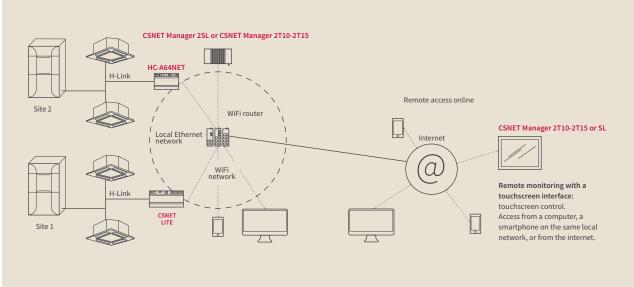
An example of a medium site setup (> 64 indoor units)

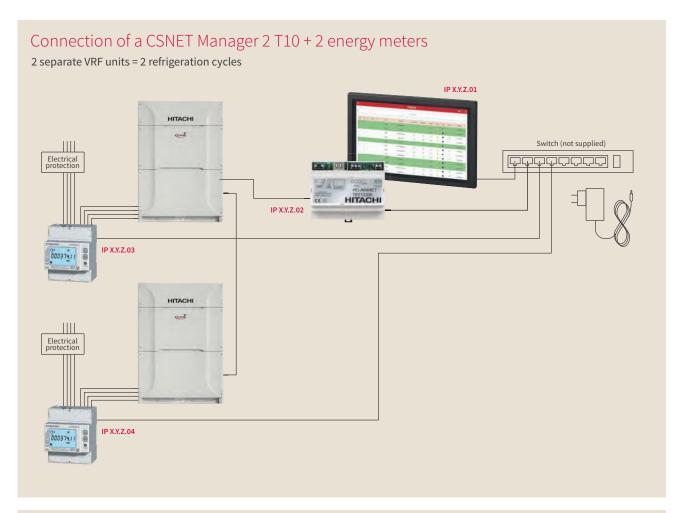


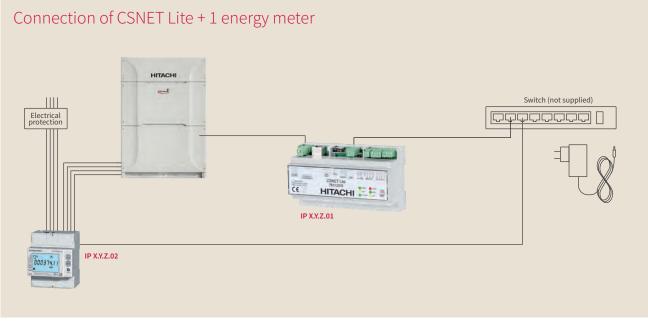
For large-scale systems, you can install up to 16 interfaces on an H-Link bus to run up to 16 x 64 indoor units (or 1,024 indoor units).

Site 2: Access the local network with a **screenless interface**. Access from a computer, a smartphone on the same local network, or via the web.

Example of the setup of 2 separate sites equipped with VRFs with centralized CSNET control and monitored remotely





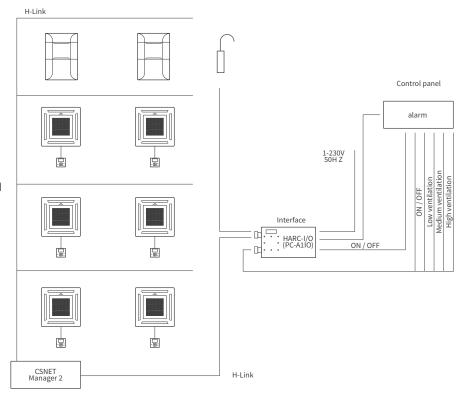


HARC-I/O interface (part no. PC-A1IO) to manage and communicate with third-party equipment

This interface integrates external equipment such as AHUs or ventilation units into a Hitachi system and controls them like Hitachi appliances via CSNET. E.g.: Ventilation, air handling unit, cooling units, etc.

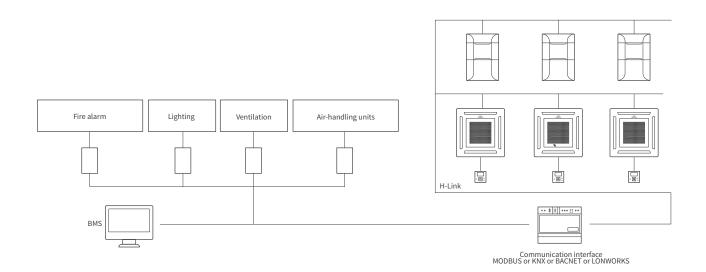
Functions:

- DI1: M/A management via dry contact.
- DI5: error display via dry contact.
- The interface should be addressed as an additional indoor unit of the outdoor unit.



Communication interfaces

HITACHI offers a full range of communication interfaces with most open protocols on the market.



Open protocols

${\sf MODBUS}^{\circledast}\,{\sf protocol}\,({\sf Modbus}^{\circledcirc}\,{\sf RTU}\,{\sf or}\,{\sf TCP/IP})$

Most centrally managed sites with BMS feature a Modbus® connection. HITACHI interfaces manage 8, 16 or 64 units per gateway. They connect at any point on the H-link bus. They are RTU or IP in auto-detection.

Economic BMS solution: perfect for medium and small public sector buildings.

Interface references

HC-A16MB (16 indoor units)

HC-A64 MB (64 indoor units)

KNX protocol

KNX® is a "building"-dedicated bus, standardized and independent of manufacturers (lighting, heating, security, energy management, metering, etc.). New certified interfaces manage 16 or 64 units each.

Based on standard buses, EIB, EHS, Batibus, KNX $^{\circ}$ guarantees the interoperability of products bearing the KNX $^{\circ}$ logo. It is an ISO standard.

BMS solution: perfect for medium and large commercial buildings.

HI-AC-KNX-16 (16 indoor units)

HI-AC-KNX-64 (64 indoor units)

BACnet®/IP protocol

The widely used BACnet/IP was designed to allow the protocol to use TCP/IP networks.

New certified interfaces directly manage 16 or 64 units each.

BMS solution: perfect for large commercial buildings.

HI-AC-BAC-16 (16 indoor units)

HI-AC-BAC-64 (64 indoor units)

LONWORKS protocol

Created by ECHELON CORPORATION, Lonworks is a recognized and accepted standard in Building Management (IEA 709.1/2/3).

These interfaces manage 32 or 64 units each.

The interoperability of equipment makes it possible to provide facilities with better thought-out services and maintenance.

BMS solution: perfect for medium and large public sector buildings.

HARC-BXE(B) (32 indoor units)

HARC-BXE(A) (64 indoor units)

(end-of-life product, limited stock).

Our extensive range of Hitachi VRF systems are ideallly suited for all building types across small and large developments. Connect up to 64 indoor units per outdoor unit, with each one independently controlled.

