Case study: a typical hotel, with Daikin's unique control and portfolio solution



Intelligent Touch Manager mini BMS in combination with Daikin's energy efficient product portfolio.

- Control all HVAC-R equipment from one central location, plug & play
- Smart energy management
- Interlock with other third party equipment such as alarms, key card, ...



KITCHEN

- Monitor refrigeration equipment operation
- Interlock with fire alarm to perform emergency stop ventilation

BANQUET HALL

- Set schedules for air handling unit fresh air and chiller operation
- Free cooling when outdoor temperature is lower than indoors

RECEPTION

- Integration into BMS
- Smart energy management tools

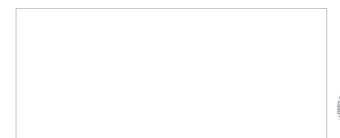
- Easy, individual control for each guest within set limits
- Connection to keycard and window switch to save energy

LOBBY

- · Interlock between underfloor heating and air conditioning to avoid simultaneous operation
- Control fresh air comfort via CO₃ sensor



Daikin Europe N.V. Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)









nstitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has ompiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V.

ne present publication is drawn up by way of information only and does not







Why choose Daikin control systems?

For commercial and industrial applications. From individual control to complete BMS packages and interfaces for integration into third-party systems, Daikin offers it all.







From individual control to Daikin mini BMS systems

				Application / Product portfolio			
Туре	Product description	Product name	Packshot	Residential	Light commercial	Medium commercial	Large commercial/ industrial
Management Control	intelligent Manager mini BMS for full integration across Daikin's portfolio and third party equipment	DCM601A51				•	•
	Chiller serial sequencing panel	EKDSSP-S				•	•
Centralised control	Intelligent Controller Touch screen for detailed and easy monitoring of VRV systems	DCS601C51			•		
	DS for basic control of Sky Air and VRV	DTA113B51			•		
	Schedule timer enabling 64 groups of indoor units to be programmed	DST301B51			•		
	Unified ON/OFF control providing simultaneous and individual control of 16 groups of indoor units	DCS301B51			•		
	Centralised remote control providing individual control of 64 groups (zones) of indoor units	DCS302C51			•		
	Chiller digital sequencing panel	EKDDSP			•	•	•
	Group controller for Siesta Sky Air	R04084124324			•		
Individual control	Daikin Online Controller: always in control, no matter where you are	BRP069A41 /42	= = =	•	•		
	Simplified remote control for hotel applications Optional adapter for key card and window contact	BRC2E52/BRC3E52/ BRP7A51			•	•	
	User friendly wired remote control	BRC1E52A/B / BRC1D52	<u>*</u>		•	•	
	Siesta Sky Air wired remote control	ARCWB			•		
	Daikin Altherma low temperature wired remote control	EKRUCBL1-7	123	•			
	Infrared remote control	ARC*/BRC4*/BRC7*	100	•	•	•	
Service	Air Conditioning Network Service System to monitor your air conditioning and guarantee the highest efficiency	ACNSS			•	•	•
	Daikin Altherma & VRV configurator for simplified commissioning	EKPCCAB3*			•	•	•

Integration into 3rd party systems

	Product description	Product name		Application / Product portfolio				
			Packshot	Residential	Light commercial	Medium commercial	Large commercial / industrial	
Interface BACnet	BACnet Interface: integrated control system for connection between VRV, applied systems, AHU and BMS systems - for VRV	DMS502A51				•	•	
	BACnet Interface for Chillers and AHU	EKCMBACIP / EKCMBACMSTP				•	•	
Interface LonWorks	LonWorks Interface for VRV	DMS504B51	4			•	•	
	LonWorks Interface for Refrigeration	EKLONPG	44			•	•	
	LonWorks Interface for Chillers and AHU	EKCMLON				•	•	
Modbus Interface	DIII-net MODBUS interface for integrated control of the connection between Sky Air, VRV and BMS system	EKMBDXA				•	•	
	Modbus interface for monitoring and control of Chillers and AHU	EKCM200J				•	•	
	Optional PCB for Modbus connection	EKFCMBCB7				•	•	
	Modbus interface for monitoring and control of Refrigeration	BRR9A1V1			•	•	•	
	Modbus Interface for monitoring and control of residential indoor units	RTD-RA		•				
	Modbus Interface for monitoring and control of Sky Air, VRV, VAM/VKM	RTD-NET	The state of the s		•			
	Modbus interface with advanced integration of Sky Air, VRV, VAM/VKM including duty and standby for server rooms	RTD-10	The state of the s		•			
	Retail controller with monitoring and control of Sky Air, VRV, VAM/VKM and air curtains including integration of CO ₂ sensor for fresh air volume control	RTD-20	The same of the sa		•			
	Modbus Interface for monitoring and control of Sky Air, VRV, VAM/VKM including intelligent hotel room control	RTD-HO	The state of the s			•		
	Modbus Interface for monitoring and control of Daikin Altherma Flex Type, VRV, HT hydrobox and small inverter chillers	RTD-W	The state of the s	•	•	•		
	Modbus Interface for monitoring and control of Daikin Altherma Low Temperature including voltage and resistance control	RTD-LT /CA	The state of the s	•				
KNX Interface	Connect residential indoor units to KNX interface for Home Automation system	KLIC-DD	200	•				
	Connect Sky Air and VRV indoor units to KNX interface for BMS integration	KLIC-DI			•			
http interface	http interface for Sky Air and VRV	DCS007A51	and the second		•			
	Interface LonWorks Modbus Interface KNX Interface	BACnet Interface integrated control system for connection between VRV, applied systems, AHU and BMS systems - for VRV BACnet Interface for Chillers and AHU LonWorks Interface for Refrigeration LonWorks Interface for Refrigeration LonWorks Interface for Chillers and AHU DIII-net MODBUS interface for integrated control of the connection between Sky Air, VRV and BMS system Modbus interface for monitoring and control of Chillers and AHU Optional PCB for Modbus connection Modbus interface for monitoring and control of residential indoor units Modbus Interface for monitoring and control of sky Air, VRV, VAMAVKM Modbus Interface for monitoring and control of Sky Air, VRV, VAMAVKM including duty and standby for server rooms Retail controller with monitoring and control of Sky Air, VRV, VAMAVKM including integration of Co ₂ sensor for fresh air volume control Modbus Interface for monitoring and control of Sky Air, VRV, VAMAVKM including intelligent hotel room control Modbus Interface for monitoring and control of Daikin Altherma Flex Type, VRV, HT hydrobox and small inverter chillers Modbus interface for monitoring and control of Daikin Altherma Low Temperature including voltage and resistance control Connect residential indoor units to KNX interface for Home Automation system http bttp interface for Sky Air and VRV indoor units to KNX interface for BMS integration	BAC'net Interface integrated control system for connection between YRV, applied systems, APU and BMS systems - for VRV BAC'net Interface for Chillers and AHU EKCMBACMFTP LonWorks Interface for VRV DMS504BS11 LonWorks Interface for VRV DMS504BS11 LonWorks Interface for Refrigeration ERLONPG LonWorks Interface for Refrigeration DIll-net MODBUS Interface for Refrigeration DIll-net MODBUS Interface for Integrated control of the connection between Sky Air, VRV and BMS system Modbus interface for monitoring and control of Chillers and AHU Optional PCB for Modbus connection Modbus Interface for monitoring and control of Refrigeration Modbus Interface for monitoring and control of Refrigeration Modbus Interface for monitoring and control of Refrigeration Modbus Interface for monitoring and control of Sky Air, VRV, VAMA/VKM including and control of Sky Air, VRV, VAMA/VKM including duty and standby for server rooms Modbus Interface with advanced integration of Sky Air, VRV, VAMA/VKM including duty and standby for server rooms RTD-10 Retal controller with monitoring and control of Dalkin Altherma Flex Type, VRV, HT Mycrobox and small inverter chillers Modbus Interface for monitoring and control of Dalkin Altherma Low Temperature including voltage and resistance control RTD-W EXENT Connect Sky Air and VRV indoor units to KNX Interface for Home Automation system RNX Interface Connect Sky Air and VRV indoor units to KNX Interface for Home Sky Air and VRV indoor units to KNX Interface for BMS Integration RND-MODE And Type Air and VRV indoor units to KNX Interface for Home Automation system RND-MODE And Air and VRV indoor units to KNX Interface for Home Automation system	BACnet Interface integrated control systems, AHU and BMS systems - for VRV BACnet Interface for Chillers and AHU LonWorks Interface for VRV LonWorks Interface for VRV LonWorks Interface for Refrigeration LonWorks Interface for Refrigeration LonWorks Interface for Chillers and AHU DILINEAR MODEUS Interface for Chillers and AHU DILINEAR MODEUS Interface for Integrated control of the connection between Sky Ak, VRV and BMS system DILINEAR MODEUS Interface for monitoring and control of Chillers and AHU Optional PCB for Modbus connection Modbus interface for monitoring and control of Refrigeration Modbus interface for monitoring and control of Refrigeration of Sky Ak, VRV, WAMA/WMM including duty and standily for server rooms. Modbus interface for monitoring and control of Sky Ak, VRV, WAMA/WMM including duty and standily for server rooms. Retail controller with monitoring and control of Sky Ak, VRV, WAMA/WMM and all curtarias including integration of CO ₂ and the server rooms of Firsh in vibrate control Modbus interface for monitoring and control of Dakin Altherma Low Temperature including voltage and resistance control Modbus interface for monitoring and control of Dakin Altherma Low Temperature including voltage and resistance control Low Temperature including voltage and resistan	BACRE Interface Integrated control system for connection Conscious Consc	Product description Product ranne Product ranne	Product name of Personal Action (Personal Information Commonths) Product Interface or Register Control (April or Septiment Commonths) Product Interface for Children and APU	