

Standard protocol interfaces

RTD

Modbus Interface

RTD-RA

- › Modbus interface for monitoring and control of residential indoor units

RTD-NET

- › Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM

RTD-10

- › Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
 - Modbus
 - Voltage (0-10V)
 - Resistance
- › Duty/standby function for server rooms

RTD-20

- › Advanced control of Sky Air, VRV, VAM/VKM and air curtains
- › Clone or independent zone control
- › Increased comfort with integration of CO₂ sensor for fresh air volume control
- › Save on running costs via
 - pre/post and trade mode
 - set point limitation
 - overall shut down
 - PIR sensor for adaptive deadband

RTD-HO

- › Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
- › Intelligent hotel room controller

RTD-W

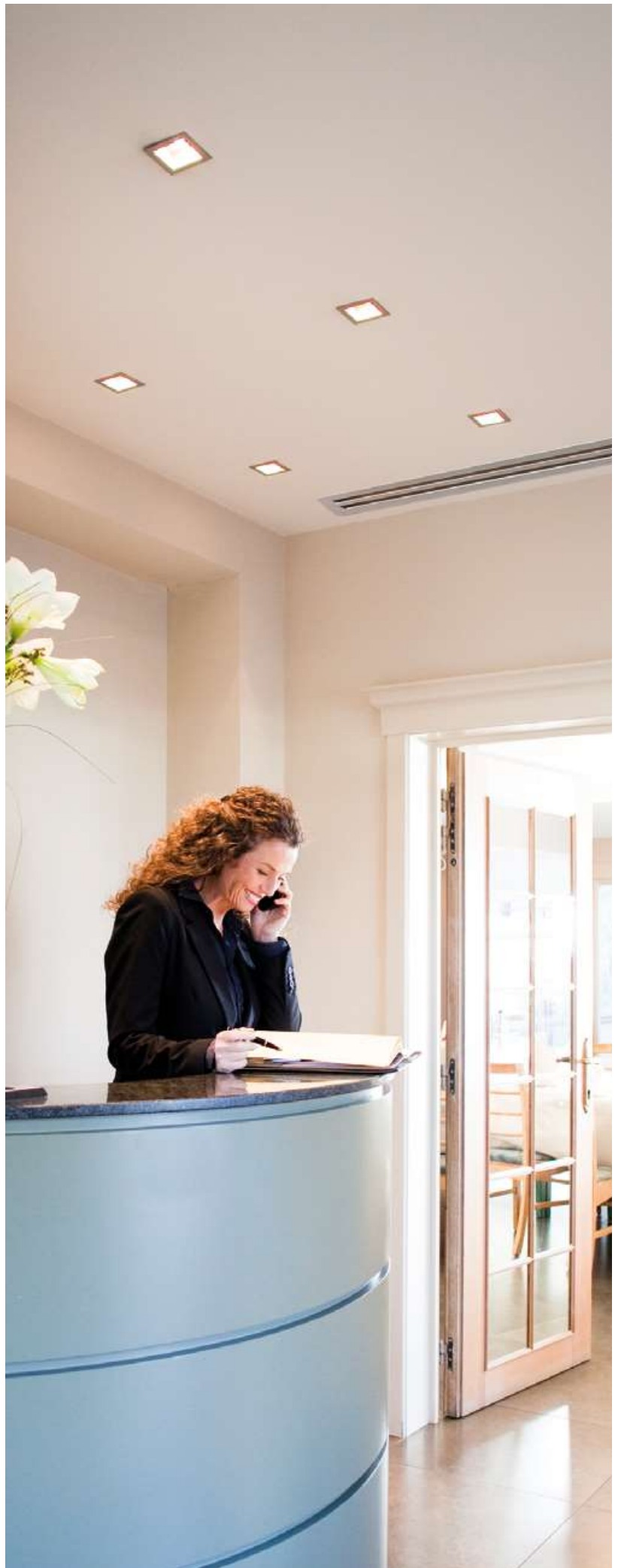
- › Modbus interface for monitoring and control of Daikin Altherma Flex Type, VRV HT hydrobox and small inverter chiller

DCOM-LT/MB

- › Modbus interface of Daikin Altherma air-to-water heat pumps, hybrid heat pumps and source source heat pumps

DCOM/LT-IO

- › Voltage & resistance control in addition to Modbus



Overview functions



Main functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions	80 x 80 x 37,5			100 x 100 x 22	
Key card + window contact					✓
Set back function	✓				
Prohibit or restrict remote control functions (setpoint limitation, ...)	✓	✓	✓	✓**	✓
Modbus (RS485)	✓	✓	✓	✓	✓
Group control	✓(1)	✓	✓	✓	✓
0 - 10 V control			✓	✓	
Resistance control			✓	✓	
IT application	✓		✓	✓	
Heating Interlock			✓	✓	
Output signal (on/defrost, error)			✓	✓****	✓
Retail application				✓	
Partitioned room control				✓	
Air curtain		✓**	✓**	✓	

(1): By combining RTD-RA devices

Control functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M,C	M	M,V/R	M	M*
Set point	M	M	M,V/R	M	M*
Mode	M	M	M,V/R	M	M*
Fan	M	M	M,V/R	M	M*
Louver	M	M	M,V/R	M	M*
HRV Damper control			M,V/R	M	M*
Prohibit/Restrict functions	M	M	M,V/R	M	M*
Forced thermo off	M				

Monitoring functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M	M
Set point	M	M	M	M	M
Mode	M	M	M	M	M
Fan	M	M	M	M	M
Louver	M	M	M	M	M
RC temperature		M	M	M	M
RC mode		M	M	M	M
N° of units		M	M	M	M
Fault	M	M	M	M	M
Fault code	M	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Thermo on	M	M	M	M	M
Defrost		M	M	M	M
Coil In/Out temperature	M	M	M	M	M



Main functions	RTD-W
Dimensions	100x100x22
On/off prohibition	✓
Modbus RS485	✓
Dry contact control	✓
Output signal (operation error)	✓
Space heating / cooling operation	✓
Domestic hot water control	✓
Smart Grid control	

Control functions	
On/Off Space heating/cooling	M,C
Set point leaving water temperature (heating / cooling)	M,V
Room temperature setpoint	M
Operation mode	M
Domestic Hot water ON	
Domestic Hot Water reheat	M,C
Domestic Hot Water reheat setpoint	
Domestic Hot Water storage	M
Domestic Hot Water Booster setpoint	
Quiet mode	M,C
Weather dependent setpoint enable	M
Weather dependent curve shift	M
Fault/pump info relay choice	
Control source prohibition	M

Smart grid mode control	
Prohibit Space heating/cooling	
Prohibit DHW	
Prohibit Electric heaters	
Prohibit All operation	
PV available for storage	
Powerful boost	

Monitoring functions	
• On/Off Space heating/cooling	• M,C
• Set point leaving water temperature (H/C)	• M
• Room temperature setpoint	• M
• Operation mode	• M
• Domestic Hot Water reheat	• M
• Domestic Hot Water storage	• M
• Number of units in the group	• M
• Average leaving water temperature	• M
• Remocon room temperature	• M
• Fault	• M,C
• Fault code	• M
• Circulation pump operation	• M
• Flow rate	
• Solar pump operation	
• Compressor status	• M
• Desinfection operation	• M
• Setback operation	• M
• Defrost/ start up	• M
• Hot start	
• Booster Heater operation	
• 3-Way valve status	
• Pump running hours accumulated	• M
• Compressor running hours accumulated	
• Actual leaving water temperature	• M
• Actual return water temperature	• M
• Actual DHW tank temperature (*)	• M
• Actual refrigerant temperature	
• Actual outdoor temperature	• M

M : Modbus / R : Resistance / V : Voltage / C: control
 * : only when room is occupied / ** : setpoint limitation / (*) if available
 *** : no fan speed control on the CYV air curtain / **** : run & fault