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ADVANCED PRODUCT NEWS

SUBJECT

Products News: New HC-A32MB

DATE: MAR.-09

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Summary

1. This advanced product news introduces the new product HC-A32MB.
2. The details are indicated in the description.

Description

HC-A32MB is new Modbus controller based on HARC-MODBUS.

HC-A32MB can be connected in an H-LINK 1 and/or H-LINK 2 communication line. It can control packaged units or water chillers depending on the H-LINK net where it is connected and device configuration.

1. Applicable products, model code and date of sales:

New product:

Model Description	Model Code	Sales Date
HC-A32MB	7E513200	May 2009

Cancelled product:

Model Description	Model Code	Cancelled Date
HARC-MODBUS	70513200	April 2009

2. New Features

2.1. Current Functions

HC-A32MB will maintain all the functions of the current HARC-MODBUS.

2.2. New Features

(1) H-LINK 2 Compatible

HC-A32MB adds compatibility with the new version of H-LINK communication called H-LINK 2 while maintaining full compatibility with current H-LINK (H-LINK 1) units.

Connection of both H-LINK 1 and H-LINK 2 units in the same H-LINK unit is possible considering the unit limitations and addressing.

H-LINK 2 communication system adds new addressing for up to 64 Refrigerant Address and up to 64 Indoor Unit Address per each Refrigerant Address.

H-LINK 2 has a limitation of 8 HC-A32MB in an H-LINK Packaged system and 1 HC-A32MB in a H-LINK Chiller system. HC-A32MB will maintain compatibility with water chillers. Remember that water chiller and packaged units cannot be connected to the same H-LINK line.

Also H-LINK 2 adds increased number of devices up to a maximum of 200 devices in the H-LINK 2 line.

The maximum number of Indoor units in an H-LINK 2 line is 160 Indoor.

Hitachi Air Conditioning Products Europe, S. A.
Barcelona (Spain)

No

APN-2009012

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Packaged System:

Devices	Maximum number of devices
HC-A32MB	8
Outdoot Units (OU)	64
Indoor Units (IU)	160
HC-A32MB + OU + IU	200

Chiller System:

Devices	Maximum number of devices
HC-A32MB	1
Water Chillers	8
HC-A32MB + Water Chillers	9

(2) New Software

HC-A32MB will be compatible with new software called Modbus configurator that can be requested to Hitachi Air Conditioning Products Europe CS-CENTRE.

Note:

Hitachi technical assistance engineers can download software from service web (www.hitachiaircon.es). Access to service web should be requested by each Hitachi area technical assistance manager to Hitachi Air Conditioning Products Europe CS-CENTRE using the standard form.

The Modbus Configurator software allows you to control the installation writing on different registers of the units following the Modbus protocol.

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Inspire the Next
HARC-MODBUS CONFIGURATOR

☒ **Serial Port**

Serial Port Configuration

COM Port: COM1
Speed: 9600
Parity: None

☐ **Network**

Network Configuration

IP Address: 172.16.130.225
Port: 502

Disconnect Connect Exit

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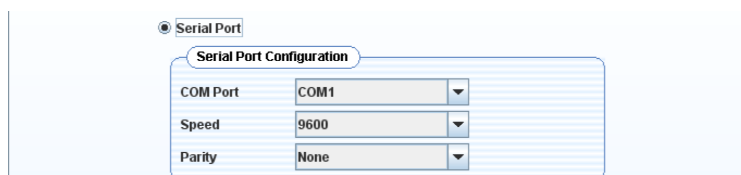
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There are two ways to connect with the HC-A32MB, you can use a network or use the serial port connection.

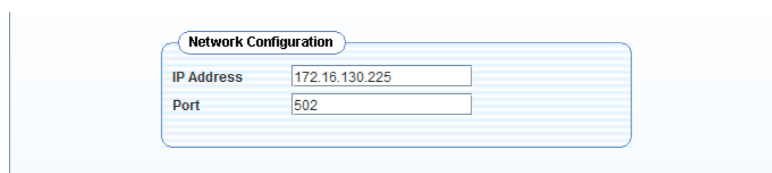
Set the connection using the serial port consists in introducing the COM Port, the speed and the parity of the serial connection.



Serial Port Configuration window showing the following settings:

Parameter	Value
COM Port	COM1
Speed	9600
Parity	None

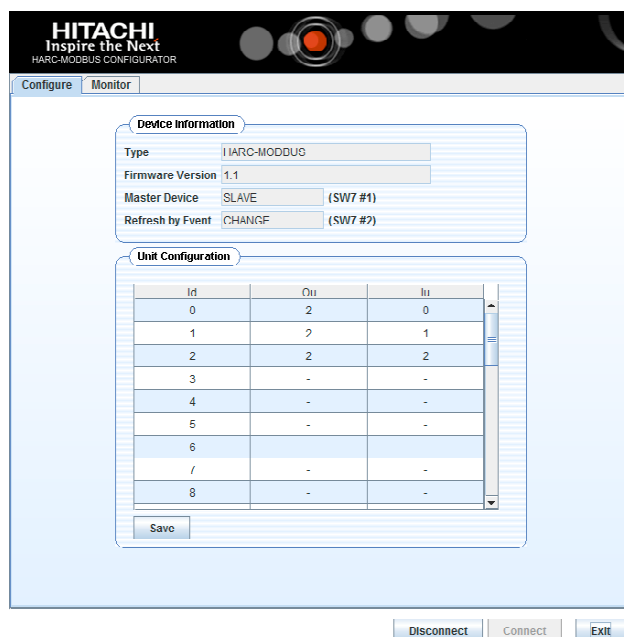
To connect with this hardware using a network, you have to introduce the gateway IP address and port where HC-A32MB is connected.



Network Configuration window showing the following settings:

Parameter	Value
IP Address	172.16.130.225
Port	502

The software allows you to configure your BMS installation.



Hitachi HARC-MODBUS CONFIGURATOR software interface showing the following configuration:

Device Information

Parameter	Value
Type	IIARC-MODBUS
Firmware Version	1.1
Master Device	SLAVE (SW7 #1)
Refresh by Event	CHANGE (SW7 #2)

Unit Configuration

Id	OU	IU
0	2	0
1	2	1
2	2	2
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-

Buttons: Save, Disconnect, Connect, Exit

There are 32 Id slots were is it possible to set the number of OU and IU of the units that you want to control.

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The Modbus Configurator works using a table for package or chiller. This table reads the address values, and allows setting new values on the write address,

	0	1	2	3	4	5	6	7	8	9	10
Exist	1	1	1	-	-	-	-	-	-	-	-
OU Add	2	2	2	-	-	-	-	-	-	-	-
IU Add	0	1	2	-	-	-	-	-	-	-	-
Set ON/Off	1	1	1	-	-	-	-	-	-	-	-
Set Mode	3	3	3	-	-	-	-	-	-	-	-
Set Fan	1	2	2	-	-	-	-	-	-	-	-
Set Tset	22	24	24	-	-	-	-	-	-	-	-
Set Louver	0	3	3	-	-	-	-	-	-	-	-
Set Central	0	0	0	-	-	-	-	-	-	-	-
Read On/Off	1	1	1	-	-	-	-	-	-	-	-
Read Mode	3	3	3	-	-	-	-	-	-	-	-
Read Fan	1	2	2	-	-	-	-	-	-	-	-
Read Tset	22	24	24	-	-	-	-	-	-	-	-
Read Louver	0	3	3	-	-	-	-	-	-	-	-
Tin	25	23	22	-	-	-	-	-	-	-	-
Error Code	0	0	0	-	-	-	-	-	-	-	-
Oper Condition	2	2	2	-	-	-	-	-	-	-	-
Read Central	0	0	0	-	-	-	-	-	-	-	-

Save Refresh

Disconnect Connect Exit

3. Compatibility and Upgrade

Software is not compatible with old hardware.

Firmware can not be upgraded.