

|           |   |                 |  |
|-----------|---|-----------------|--|
| All Areas |   | The middle East |  |
| Europe    | ⊙ | Southeast Asia  |  |
| Australia |   | Africa          |  |
| Others (  |   | )               |  |

## TECHNICAL BULLETIN

SUBJECT

**HC-A32MB Configurator software uploaded to HAPE  
WEB**
**DATE:** NOV. 09

**PAGE** 1 / 7

### Summary

1. This technical bulletin informs about new configuration software for HC-A32MB.
2. The details are indicated in the description.

### Description

#### 1. Applicable product, model code:

| MODEL CODE | DESCRIPTION |
|------------|-------------|
| 7E513200   | HC-A32MB    |

#### 2. Context of HC-A32MB Configuration Software

HC-A32MB can be configured using DIP-Switch, but it takes long time to set up big installations with many indoor units.

To help user to configure the installation Hitachi supplies the HC-A32MB Configurator Software.

This software has a friendly interface that makes that configuration become easier.



Following two elements are needed:

- **Modbus Gateway:** (Field Supplied) Gateway from RS-485 (Modbus) to USB, Serial or Ethernet the communication with HC-A32MB.
- **HC-A32MB Configurator software:** Software to configure the HC-A32MB supplied by Hitachi (It is available for Hitachi personnel for download it from <http://www.hitachiaircon.es/>).

#### 3. Compatible Modbus Gateway from RS-485 or USB

HC-A32MB Configuration Software works using the Modbus communication of HC-A32MB, in order to start that configuration it is necessary to connect computer to RS-485 (Modbus).

Hitachi recommends the following devices.

| USB/Serial to RS-485 (Modbus) Gateway  | Ethernet to RS-485 (Modbus) Gateway  |
|--|--|
| <b>Model:</b> Uport 1130 from MOXA®<br> | <b>Model:</b> MGate MB-3180 from MOXA®<br> |

|            |   |                 |  |
|------------|---|-----------------|--|
| All Areas  |   | The middle East |  |
| Europe     | ⊙ | Southeast Asia  |  |
| Australia  |   | Africa          |  |
| Others ( ) |   |                 |  |

## TECHNICAL BULLETIN

SUBJECT  
**HC-A32MB Configurator software uploaded to HAPE  
WEB**

**DATE:** NOV. 09

**PAGE** 2 / 7

### 4. HC-A32MB Configurator Software

Software allows two kinds of connection with the Modbus Gateway:

- **Using Serial Port (USB or RS-232)**
- **Using Network**

When Serial Port Connection is selected, it must be configured the following options:

- **COM Port:** communication port of the computer.
- **Speed:** speed of the serial communication in bauds.
- **Parity:** type of communication parity,
- **Type:** H-LINK units type, Packaged or Chiller.
- **Modbus ID:** identifier of HC-A32MB. On 0 use broadcast communication.

# HITACHI

Distributed to C Areas:

|           |   |                 |  |
|-----------|---|-----------------|--|
| All Areas |   | The middle East |  |
| Europe    | ⊙ | Southeast Asia  |  |
| Australia |   | Africa          |  |
| Others (  |   |                 |  |

## TECHNICAL BULLETIN

SUBJECT

**HC-A32MB Configurator software uploaded to HAPE  
WEB**

**DATE:** NOV. 09

**PAGE** 3 / 7

When Network Connection is selected, it must be configured the following options:

- **IP Address:** address of HC-A32MB.
- **Port:** port address of HC-A32MB, by default, uses the Modbus port 502.
- **Type:** H-LINK units type, Packaged or Chiller.
- **Modbus ID:** identifier of HC-A32MB. On 0 use broadcast communication.

### NOTE

Depending on gateway the address of broadcast will not work.

Hitachi MODBUS Configurator

**HITACHI**  
Inspire the Next  
HARC-MODBUS CONFIGURATOR

☐ Serial Port

Serial Port Configuration

COM Port: COM1  
Speed: 19200  
Parity: None  
Type: Packaged  
Modbus Id: 0 - Broadcast

☒ Network

Network Configuration

IP Address: 172.16.130.225  
Port: 502  
Type: Packaged  
Modbus Id: 0 - Broadcast

Disconnect Connect Exit

|           |   |                 |  |
|-----------|---|-----------------|--|
| All Areas |   | The middle East |  |
| Europe    | ⊙ | Southeast Asia  |  |
| Australia |   | Africa          |  |
| Others (  |   | )               |  |

## TECHNICAL BULLETIN

SUBJECT

**HC-A32MB Configurator software uploaded to HAPE  
WEB**

**DATE:** NOV. 09

**PAGE** 4 / 7

### 4.1. Package Connection

When software connects with HC-A32MB and it is connected to Packaged installation, the following window will appear with 2 tabs, the first one is the Configure tab.

On the **Configure** tab, it is possible to specify up to 32 Modbus Identifiers related to a Indoor Unit and Outdoor Unit address.

To specify which Indoor Unit we want to set on the Modbus Id, it is necessary to set also the Outdoor Unit.

Hitachi MODBUS Configurator

**HITACHI**  
Inspire the Next  
HARC-MODBUS CONFIGURATOR

Configure Monitor

**Device Information**

Type: HARC-MODBUS

Firmware Version: 1.0.0.001

Master Device: Master (SW7 #1)

Refresh by Event: Event (SW7 #2)

**Unit Configuration**

| Id | Ou | Iu |
|----|----|----|
| 0  | -  | -  |
| 1  | -  | -  |
| 2  | -  | -  |
| 3  | -  | -  |
| 4  | -  | -  |
| 5  | -  | -  |
| 6  | -  | -  |
| 7  | -  | -  |
| 8  | -  | -  |

Save

Disconnect Connect Exit

**Save** Button stores the Installation configuration.

# HITACHI

Distributed to C Areas:

|            |   |                 |  |
|------------|---|-----------------|--|
| All Areas  |   | The middle East |  |
| Europe     | ⊙ | Southeast Asia  |  |
| Australia  |   | Africa          |  |
| Others ( ) |   |                 |  |

## TECHNICAL BULLETIN

SUBJECT

**HC-A32MB Configurator software uploaded to HAPE  
WEB**

**DATE:** NOV. 09

**PAGE** 5 / 7

Finally is it possible to read and write values using the **Monitor** tab.

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

It is only possible to write on Set fields. After double click, that field becomes editable.

When value is set, clicking on **Save** Button, change will be submitted.

**Refresh** button reloads table information.

|            |   |                 |  |
|------------|---|-----------------|--|
| All Areas  |   | The middle East |  |
| Europe     | ⊙ | Southeast Asia  |  |
| Australia  |   | Africa          |  |
| Others ( ) |   |                 |  |

## TECHNICAL BULLETIN

SUBJECT

**HC-A32MB Configurator software uploaded to HAPE  
WEB**

**DATE:** NOV. 09

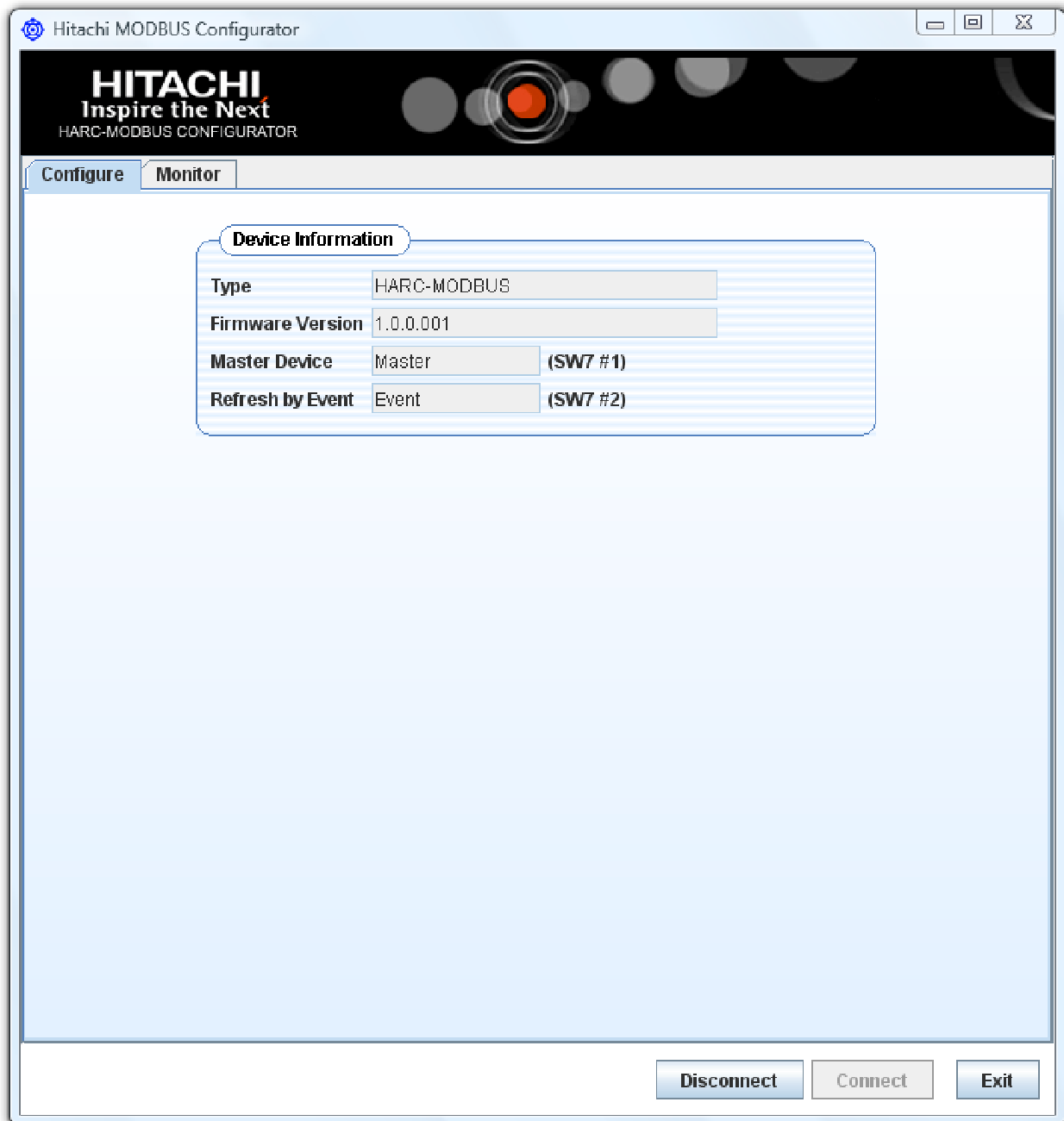
**PAGE** 6 / 7

### 4.2. Chiller Connection

When software connects with HC-A32MB and it is connected to Chiller installation, the following window will appear with 2 tabs, the first one is the Configure tab.

On the **Configure** tab, due to the maximum number of Chillers on a H-Link line is 8, and maximum number of Modbus address form HC-A32MB is 32, then it is not necessary to set what Chillers will be on each Modbus address.

Chillers will have same H-Link address value than Modbus address value.



**Save** Button stores the Installation configuration.

# HITACHI

Distributed to C Areas:

|           |   |                 |  |
|-----------|---|-----------------|--|
| All Areas |   | The middle East |  |
| Europe    | ⊙ | Southeast Asia  |  |
| Australia |   | Africa          |  |
| Others (  |   | )               |  |

## TECHNICAL BULLETIN

SUBJECT

**HC-A32MB Configurator software uploaded to HAPE  
WEB**

**DATE:** NOV. 09

**PAGE** 7 / 7

Finally is it possible to read and write values using the **Monitor** tab.

|                | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----------------|---|---|---|---|---|---|---|---|
| Exist          | - | - | - | - | - | - | - | - |
| ChillerAdd     | - | - | - | - | - | - | - | - |
| Set ON/Off     | - | - | - | - | - | - | - | - |
| Set Mode       | - | - | - | - | - | - | - | - |
| Set Temp Cool  | - | - | - | - | - | - | - | - |
| Set Temp Heat  | - | - | - | - | - | - | - | - |
| Central        | - | - | - | - | - | - | - | - |
| Read On/Off    | - | - | - | - | - | - | - | - |
| Read Mode      | - | - | - | - | - | - | - | - |
| Read Temp Cool | - | - | - | - | - | - | - | - |
| Read Temp Heat | - | - | - | - | - | - | - | - |
| CEL            | - | - | - | - | - | - | - | - |
| COL            | - | - | - | - | - | - | - | - |
| Tambient       | - | - | - | - | - | - | - | - |
| Oper Condition | - | - | - | - | - | - | - | - |
| Alarm Chiller  | - | - | - | - | - | - | - | - |
| Alarm Cycle 1  | - | - | - | - | - | - | - | - |
| Alarm Cycle 2  | - | - | - | - | - | - | - | - |
| Alarm Cycle 3  | - | - | - | - | - | - | - | - |

It is only possible to write on Set fields. After double click, that field becomes editable.  
When value is set, clicking on **Save** Button, change will be submitted.

**Refresh** button reloads table information.