Honeywell

UDC100

UDC100 CONFIGURATOR KIT (EN)
KIT CONFIGURATEUR UDC100 (FR)
UDC100 KONFIGURATIONSPAKET (GE)

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ENGLISH ➢ TABLE OF CONTENTS

FRANÇAIS ➢ TABLE DES MATIERES

DEUTSCH ➢ INHALTSVERZEICHNIS

1. PC CONFIGURATOR

1.1 UDC100 configurator overview

The configurator is designed to enable customers to reconfigure any UDC100 controller(s) in the field. The main function of the configurator is to increase the flexibility of the UDC100 via simple reconfiguration, and hence limit the number of different models which have to be kept in stock.

The configurator is also used to recalibrate the UDC100 controller.

WARNING:
The sensor input terminals of the UDC100, and the configuration socket are not electrically isolated. Ensure the sensor input is not in contact with any dangerous common mode voltages, before connecting the configuration lead to the UDC100.

1.2 PC Hardware requirements and operating system compatibility

The UDC100 configurator software requires a PC with a 486 (or higher) processor and is compatible with Windows 3.11, Windows 95 and Windows NT.
The kit includes an interface box, configurator software and a phone cable to enable connection between the PC and the UDC100.

1.3 UDC100 configurator installation

Software installation is as follows:

- Insert the installation floppy disk into drive "a:".
- For Windows 3.11:
  Select the program manager and **File/Run**.
  Type **a:\setup.exe** and then press **Enter**.
- For Windows 95: Select **Start/Run**, write **a:\setup.exe** and click on **OK**.
- Follow the instructions displayed on the PC screen.

1.4 Running the UDC100 configurator

- Connect the interface box via the 9 way D connector to the selected PC serial port, then connect the phone cable supplied in the kit to the UDC100 controller.
- Power on the UDC100.
- Run the UDC100 configurator program.

1.4.1 Menus

The UDC100 configurator window gives you access to the following menus and sub-menus:

➔ **File**

- *New:* Open a new configuration window.
- *Load:* Import an existing configuration.
- *Save:* Save the configuration on disk.
- *Save as:* Save the configuration using a specific file name.
- *Update databases:* Loads new UDC100 databases or new sensor databases.
- *View before print:* Preview before printing.
- *Print:* Print the configuration.
- *Close:* Close the configuration window.
- *Quit:* Quit the configurator software.

The update databases function is only used when installing a new update Disk. The update disk will contain any new versions of UDC100 or new sensor types.

➔ **Language**

This menu allows you to select the language used.
If the language type is changed, it will be necessary to quit the UDC100 configurator and then start the software again.

➔ **Communication**

- *Upload:* The configurator uploads the existing configuration from the UDC100.
- *Download:* The configurator downloads the new or modified configuration to the UDC100.

➔ **Calibration**

This menu enables the UDC100 to be recalibrated.

➔ **Port**

PC serial port selection (COM1, 2, 3 or 4)

➔ **Help**

See Help window.

1.4.2 Configuring the UDC100

Select the PC port by means of the ***port*** menu. (Generally Serial Port 1)

The configurator software provides three possible ways to reconfigure the UDC100:

➔ **Using the current UDC100 configuration**

1. Upload the current UDC100 configuration (***Communication/Upload*** menu).
2. Modify the required parameters.
3. Download the new configuration to the UDC100 (***Communication/Download*** menu).

➔ **Using a default configuration**

1. Open a new configuration window (***File/New*** menu).
2. Select the correct type of UDC100 (***Model*** options box).
3. Modify the required parameters.
4. Download the new configuration to the UDC100 (***Communication/Download*** menu).

➔ **Using a configuration file saved on disk**

1. Open the existing configuration file (***File/Load*** menu).
2. Modify the required parameters.
3. Download the new configuration to the UDC100 (***Communication/Download*** menu).

To obtain help, position the cursor on the required parameter and press the F1 key.

1.4.3 Recalibrating the UDC100

Select the ***Calibration/Calibration*** menu.

Follow the instructions.

CAUTION:
The calibrator used to recalibrate the UDC100 must be able to generate the required signal, and should have an accuracy of 0.25% or better.

EXAMPLE:
If the UDC100 sensor input is thermocouple type J 0/300°C, the calibrator must be able to generate the correct millivolts corresponding to 0°C and 300°C.

1.5 Important remarks

1.5.1 Selecting the UDC100 model type

When selecting the UDC100 model type, the parameter ***other*** is only used for special units, ie controllers designed for OEMs. If ***other*** is selected, a specific model number provided by Honeywell must be entered.

If the UDC100 is not a special, do not select ***other***. If ***other*** has been selected by mistake, choose the ***file/new*** menu (this will allow you to exit from ***other*** selection).

1.5.2 Rounding effects of the hysteresis and filter time constants

The UDC100 configurator can automatically round the value of the hysteresis and filter time constants.

The reasons for the rounding effect are:

- The hysteresis value (percentage of span) is converted to degrees (integer value) before being downloaded to the UDC100.
- The filter time constant (seconds, floating point) is converted to a percentage (integer value with a scaling factor) before being downloaded to the UDC100.

The UDC100 configurator will always display the REAL value of the hysteresis and filter time constants with any rounding taken into account.

1.5.3 Single SP

When the single SP option is selected, the set point value for channel 1 will also apply to channel 2 if the UDC100 is a dual loop model.

1.5.4 Configuration acceptance

When a new configuration is downloaded to the UDC100, the power to the controller must be cycled OFF and ON before for the new configuration to be accepted.

1.5.5 RTD ranges

- RTD sensor inputs cannot be selected if the UDC100 software revision level is version 1.1.
- RTD -40/60°C and RTD -40/140°F input types accuracy (0.5% of span) is only guaranted by factory selection.