Special documentation
CY42
Liquiline DAT module
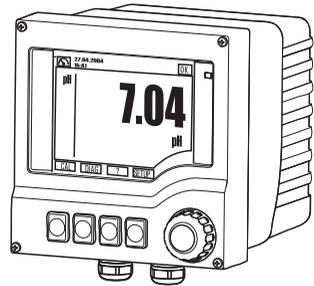
There are 3 different types of DAT module
- SystemDAT (CY42–S1)
  - For changing the sensor type, software updates (more recent software version) and changing the language package
- FunctionDAT (CY42–F1/F2)
  - For software upgrades
    - F1: for two current outputs
    - F2: for additional functionality
- CopyDAT (CY42–C1)
  - Memory for own configuration settings
  - Multiplication of settings to other Liquiline M CM42 transmitters

Endress+Hauser

People for Process Automation

1 DAT handling

1. Insert a DAT module into the user port (pos. 1) on the inside cover:
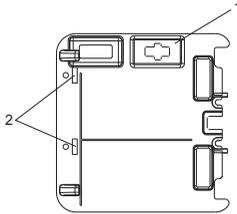
✎ Note!
If the inside cover does not have the appropriate block–out for the DAT module (pos. 1), please release the holding clamps (pos. 2) and remove the inside cover. After using the DAT module, remove it and clamp back the cover.

2. Select the desired function in the DAT menu.

3. Follow the instructions on the display until you are prompted to restart the system.

4. Depending on the action required, connect the new hardware (other sensor type or other sensor module with the corresponding sensor cable and sensor).

5. Remove the DAT module from the user port.

2 DAT features

2.1 SystemDAT

The SystemDAT can be used to:

1. Update the software
   a. Devices prior to May 2006:
      DAT modules are not supported

   b. Devices from May 2006 (serial number 85...) to May 2009 (serial number C5...):
      – Unpower the device.
      – Plug in the SystemDAT.
      – Re-power the device and follow the instructions on the display.

   c. Devices from June 2009 (serial number C6...) or younger:
      – Plug in the SystemDAT.
      – Open the SystemDAT menu.
      – Select "Update" and follow the instructions on the display.

2. Change the sensor type
   – Open the SystemDAT menu.
   – Select "Sensor type" and follow the instructions on the display.

3. Change the language
    – Open the SystemDAT menu.
    – Select "Language" and follow the instructions on the display.

2.2   FunctionDAT

The FunctionDAT can be used to upgrade the functionality of Liquiline M CM42.
There are two different types of FunctionDATs: a) Upgrade from one to two current outputs and
b) Upgrade from software version "Basic" to "Advanced".

1. Open the FunctionDAT menu.

2. Follow the instructions on the display.

2.3   CopyDAT

The CopyDAT can be used to save and download the configuration of the Liquiline M CM42.

1. Open the CopyDAT menu.

2. Follow the instructions on the display.

3   CM42 DAT menu

Function	Options	Info
SystemDAT	Each option below causes the device to be restarted	
Sensor type	Options ■ pH glass ■ pH ISFET ■ ORP ■ Conductivity ■ Oxygen	After selecting the "Sensor type" function, follow the instructions on the display. Once you have accessed the DAT module, you can choose the sensor types available and the related software. Select the desired line and confirm the option selected by clicking "OK".
Language	Options ■ English ■ German ■ French ■ Polish ■ Czech ■ Spanish ■ Dutch ■ Italian ■ Chinese ■ Japanese ■ Portuguese ■ Russian ■ Swedish	✎ Note! You can only change the second language of your device here. It is not possible to change English as the first language. After selecting the "Language" function, follow the instructions on the display. Once you have accessed the DAT module, you can choose from the languages available. Select the desired second language and confirm the option selected by clicking "OK".

Function	Options	Info
Update	Options ■ PH 10.xx.xx-xxxx ■ COND 13.xx.xx-xxxx ■ DO 20.xx.xx-xxxx	After selecting the "Update" function, follow the instructions on the display. Once you have accessed the DAT module, you can choose from the software packages available. Select the desired software and confirm the option selected by clicking "OK".
FunctionDAT		Follow the instructions on the display. ✎ Note! The upgrade links the FunctionDAT to the selected Liquiline. It cannot be used with another device. A spare part CPU module with the same device serial number can be upgraded with this FunctionDAT.
CopyDAT	Options ■ Read data from DAT ■ Save data to DAT	Follow the instructions on the display. Once you have accessed the CopyDAT module that is plugged in, you get an overview of the contents of the module. You can now save the current configuration or download a saved configuration from the DAT. Select the desired action and confirm the option selected by clicking "OK".

www.endress.com/worldwide

Endress+Hauser

People for Process Automation

71082866