

Quick Guide

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Procedure for
reprogramming
Siemens meters for
Kamstrup
calculators
MULTICAL[®] 603 and
MULTICAL[®] 803

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1 General description

In order for a Kamstrup calculator to be able to calculate the accumulated volume, energy, actual flowrate etc. from a Siemens flow sensor, the pulse value as well as the pulse width must be programmed correctly in the Siemens meter. The pulse figure can be found by looking at the calculator's CCC-code (image from technical description):

CCC	qp	L/imp.
201 ¹	4...150	1
202 ¹	40...400	2,5
204 ¹	40...1.500	10
205 ¹	400...8.000	50
206 ¹	400...15.000	100

A complete list of CCC-codes can be found in the Technical description for the MULTICAL® 603 and MULTICAL® 803 under the section named "Flow sensor coding >CCC<".

<https://www.kamstrup.com/en-en/heat-solutions/meters-devices>

The CCC-numbers in the leftmost column correspond to the pulse figure numbers in the rightmost column. For any given CCC-code, the number in the L/imp. column must be programmed in the Siemens flow sensor. For Kamstrup calculators that should receive pulses, a pulse width of 4,1ms must be used.

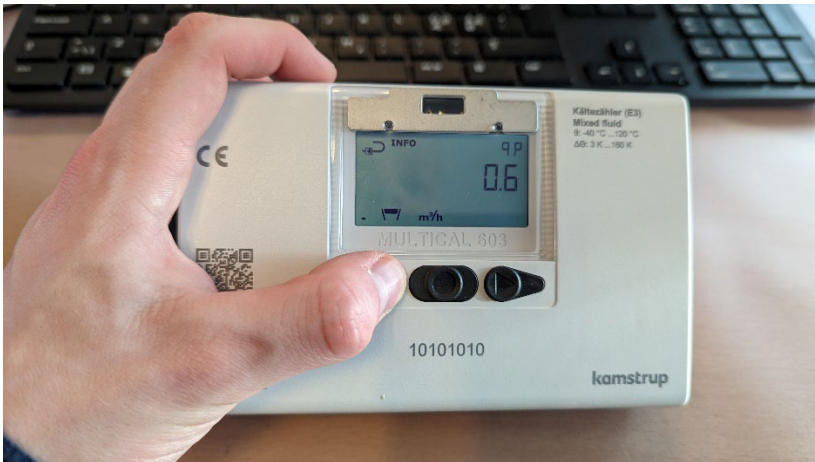
Reprogramming Siemens meters

1.1 How to find the qp and L/imp in the MULTICAL® 603 and MULTICAL® 803

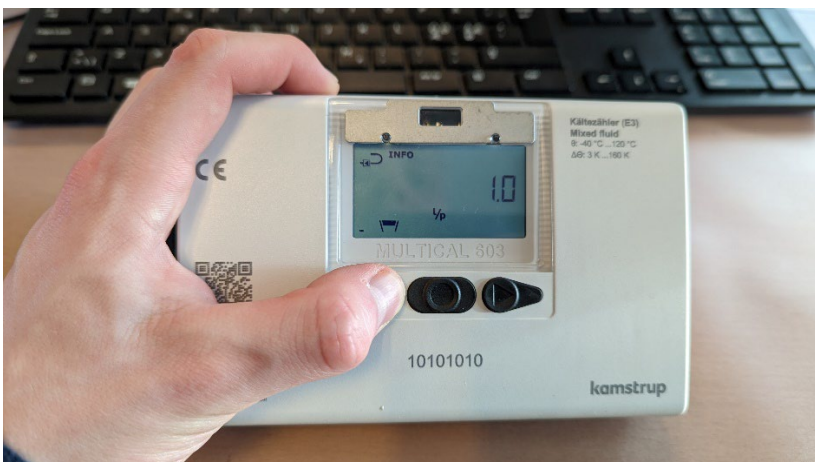
To find the qp and L/imp. for the Kamstrup calculator follow these steps:



1: Make sure the meter is on the default reading view



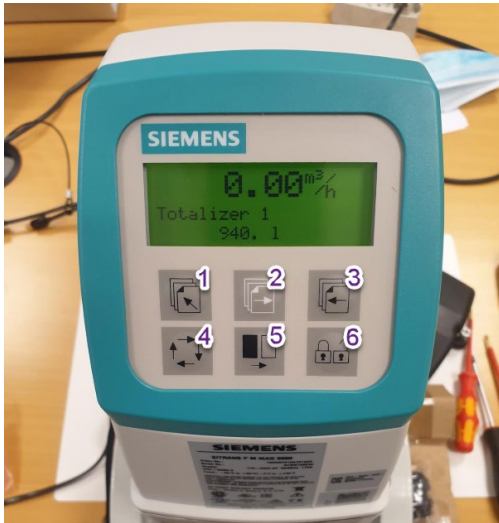
2: Press 1 once (display reads qp)



3: Press 1 once (display reads L/p)

2 Programming the flow part

The six push-buttons are used for programming. They are numbered the following way:



1:

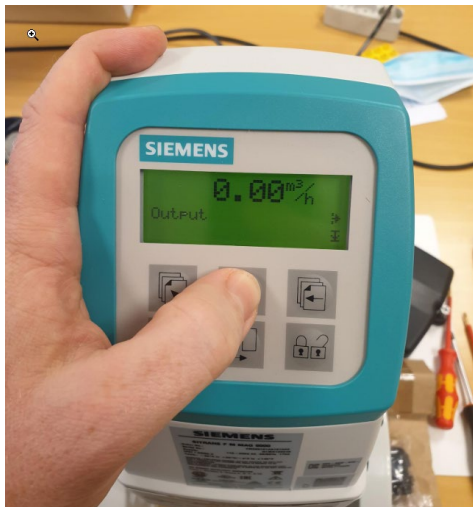
Press-and-hold **1** for two seconds until the display shows "password 0000". Press **6** to open the password lock. Press **4** once (display reads "password 1000"):



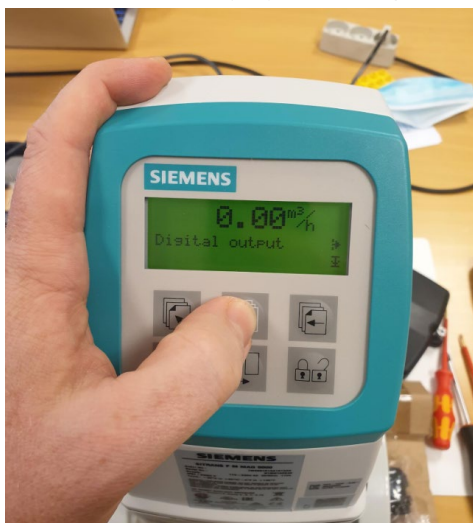
Reprogramming Siemens meters

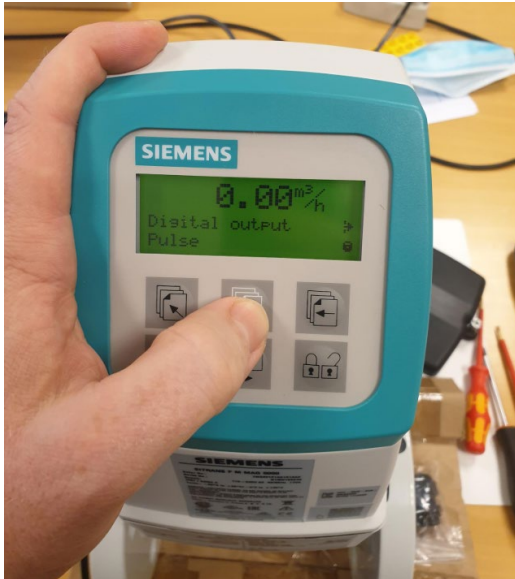
2:

Scroll to the menu for output by pushing **2** once:



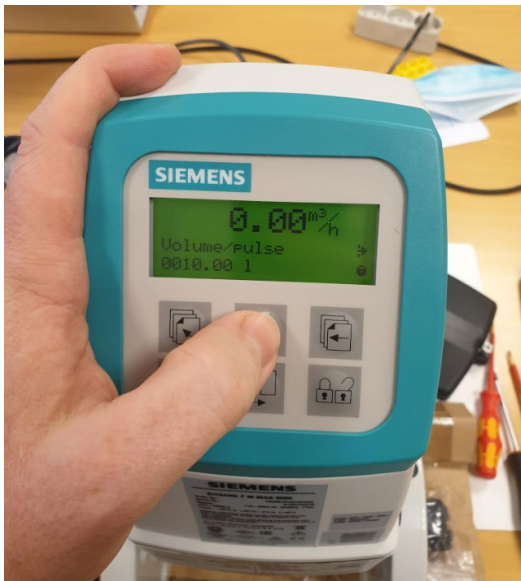
Press **6**, then **2**. Display reads "digital output":





3:

Press **2** for pulse figure reading. Display reads "Volume/pulse":



Press **6** to put the cursor on the leftmost digit.

Depending on which number is to be programmed (see Page 1 for table of CCC-codes) button **5** is pressed to switch digits (left to right) and **4** is pressed to change the value of the chosen digit/unit.

The values change in a circular fashion, so to go back, press until the values roll over and start from the beginning.

It is important that the unit of measure (L/mL/m³/etc.) is set correctly according to the table above.

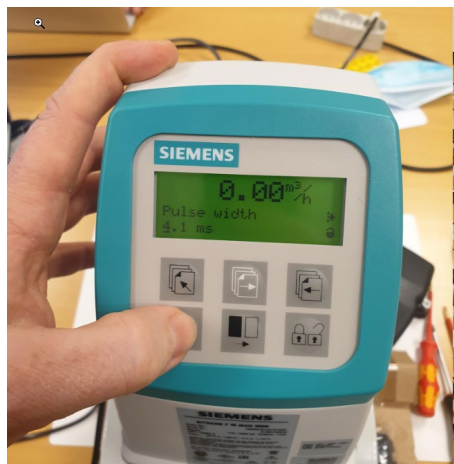
Reprogramming Siemens meters

4:

Press **2** twice to go to the menu for pulse width. Display reads "Pulse width":



Unlock the menu by pressing **6** (the cursor will now be on the number line). Press **4** consecutively until the display reads "4.1 ms":

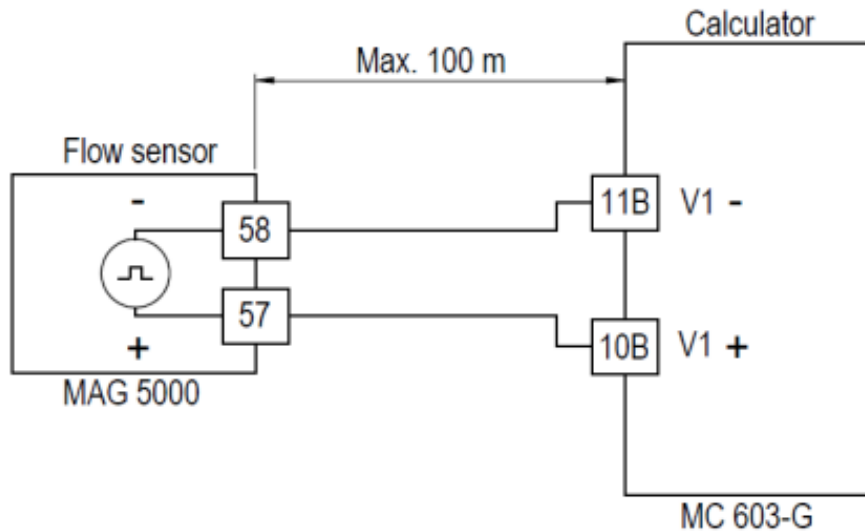


Press **6** to save the settings.

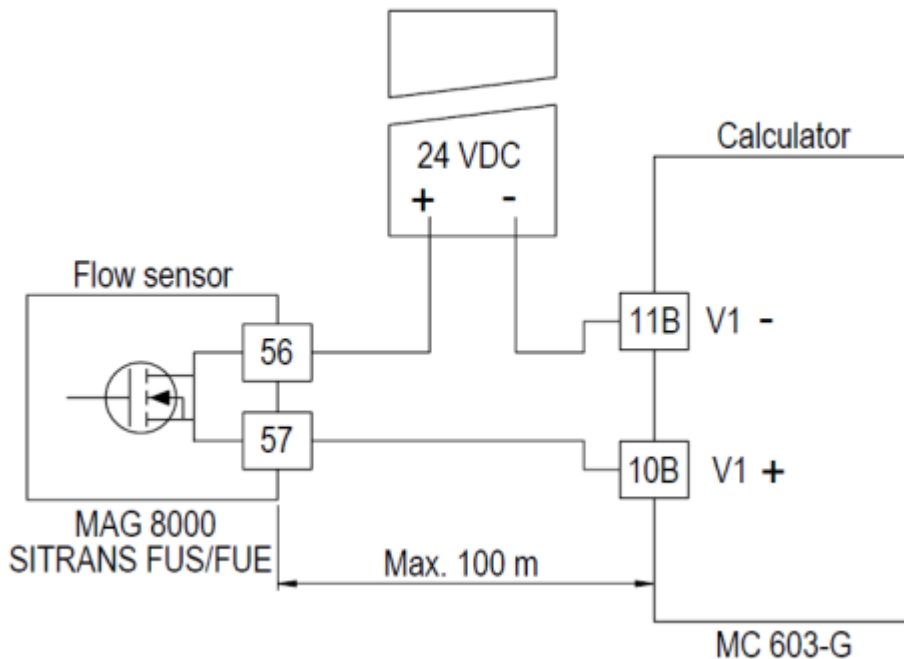
3 Connecting the Siemens flowmeter to a MULTICAL® 603 or MULTICAL® 803

To connect the Siemens flowmeter to a MULTICAL® 603 or a MULTICAL® 803, follow these connection diagrams depending on which Siemens meter is to be connected to which Kamstrup meter.

3.1 MC 603-G: MAG5000 with 24 V active pulse output



3.2 MC 603-G: MAG8000/FUE/FUS with passive pulse output



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3.3 MC 803-A: MAG5000 with 24 V active pulse output

