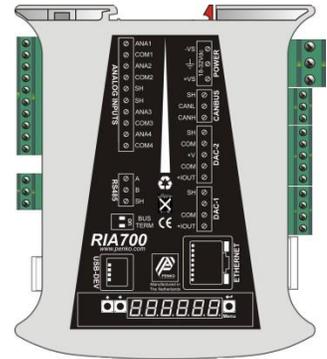


PENKO Engineering B.V.

Your Partner for Fully Engineered Factory Solutions



How to...

Connect multiple SGM7xx's, SGM8xx's, RIO700's and RIA700's using the local bus



PENKO

an ETC Company

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Hardware connection

Note: the bus cannot be used to connect a SGM7xx's, SGM8xx's, RIO700's or RIA700's to a FLEX or 1020.

Note: the local bus can only be used to calibrate or configure the devices with Pi Mach II.

It is possible to connect up to 32 devices using the local bus (RS485). This bus is for calibrating use only.

First of all you will need to connect the all devices together, this can be done by connection three wires parallel (A goes to A, B goes to B – and Shield goes to shield).

RS485 connection	SGM7xx	SGM8xx	RIO700	RIA700
	A	A	A	A
	B	B	B	B
	SH	SH	SH	SH

The last device on the cable must use the bus termination. This can be done by switching both of the dipswitches next to the RS485 connector to “on”. Connect the USB-cable from the PC into the first device. Now the hardware connection is complete.

Set the address with the push buttons

Every device that is connected needs to have a different address, the easiest way is to use the buttons on the front of the device. The device with the USB-cable must be address 1.

Push button three for more than two seconds.



Now you are in the menu. Keep Pressing on button one until you see 485.



Push shortly on button two, now you can see the address.



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Use the button to change the address .

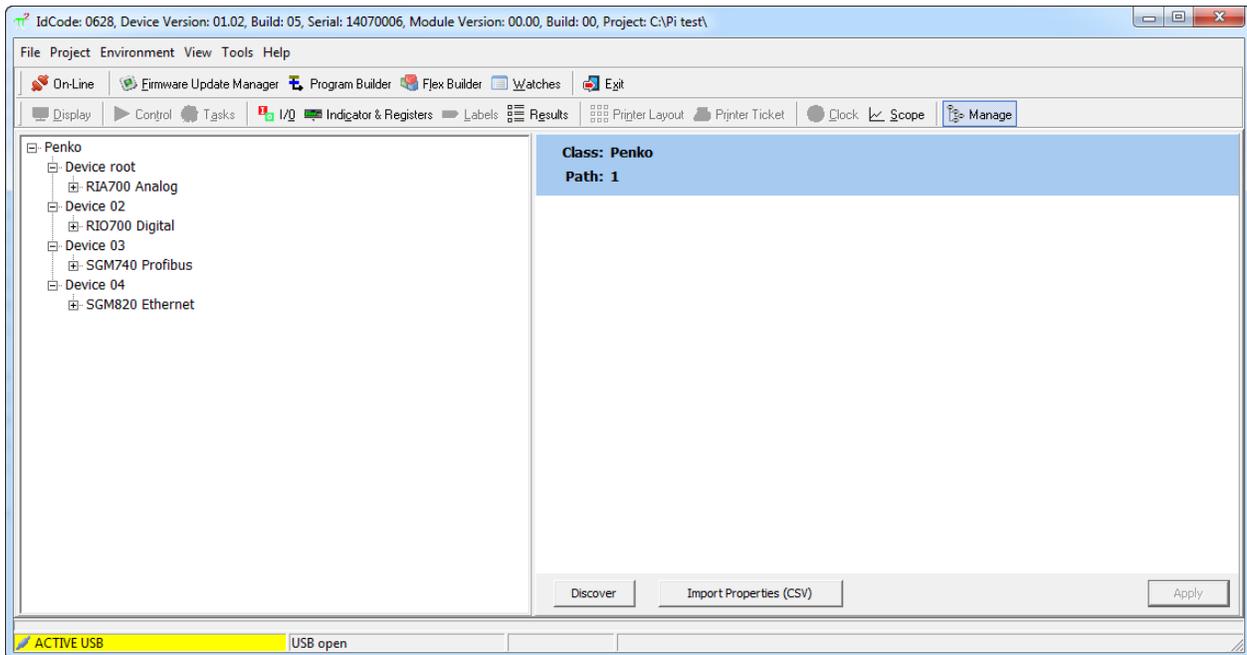


Increase Decrease Left Right Confirm

Push button three to leave the menu.



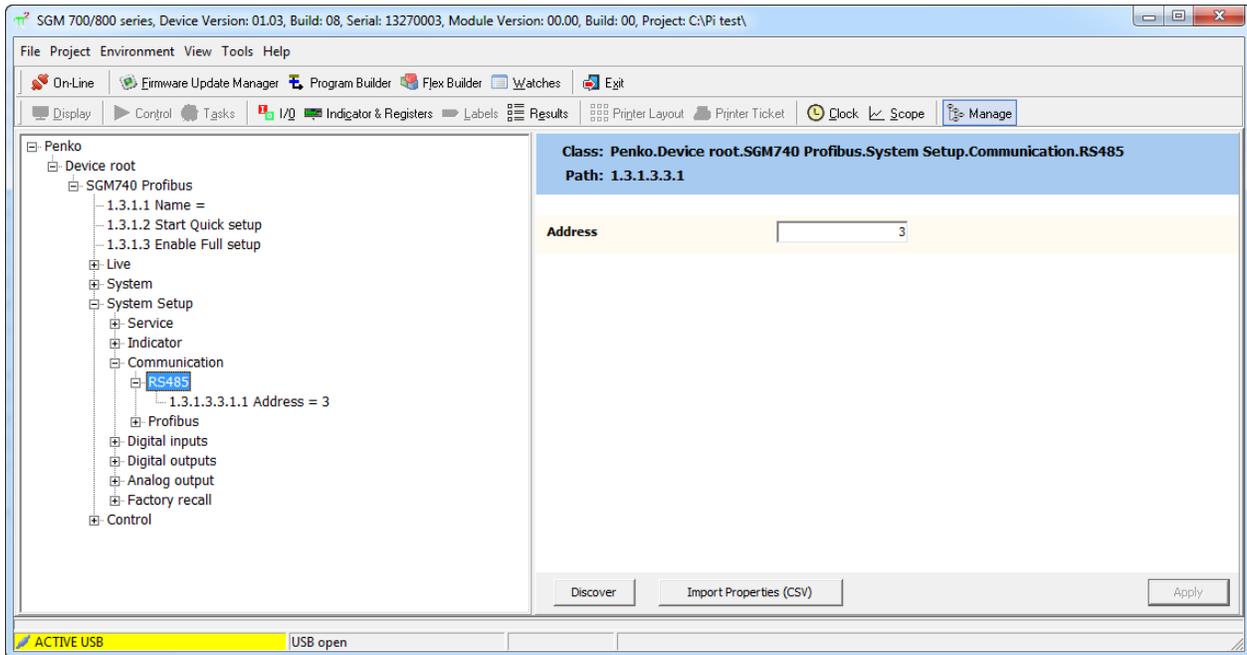
Start Pi Mach II, now you will see all the devices that are connected in the left window. Click on the device you want to configure.



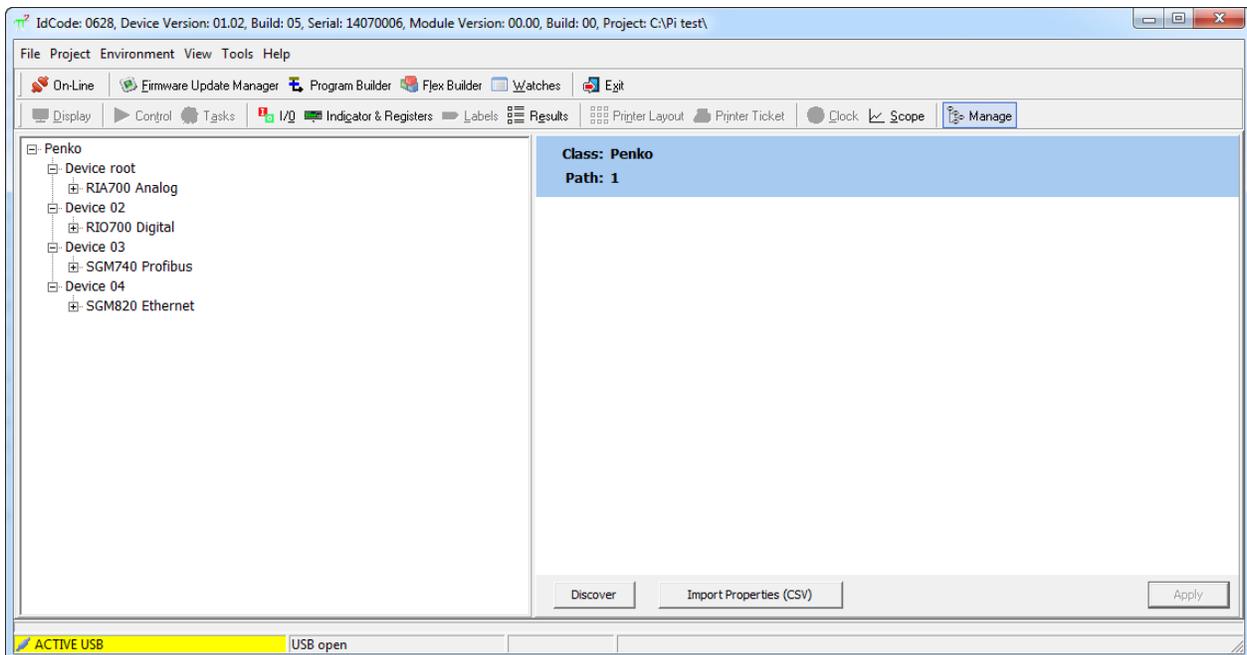
Set the address with Pi Mach II

Connect the devices one at a time to the PC with a USB-cable and open Pi Mach II.

Double click on **System Setup** double click on **Communication** and double click on **RS485**. Make sure that all devices get a unique Address number. And click on **Apply** to save the address number.



If all addresses are set, connect the device with address 1 to the PC with a USB-cable or Ethernet cable if available.





About PENKO

Our design expertise include systems for manufacturing plants, bulk weighing, check weighing, force measuring and process control. For over 35 years, PENKO Engineering B.V. has been at the forefront of development and production of high-accuracy, high-speed weighing systems and our solutions continue to help cut costs, increase ROI and drive profits for some of the largest global brands, such as Cargill, Sara Lee, Heinz, Kraft Foods and Unilever to name but a few.

Whether you are looking for a simple stand-alone weighing system or a high-speed weighing and dosing controller for a complex automated production line, PENKO has a comprehensive range of standard solutions you can rely on.

Certifications

PENKO sets high standards for its products and product performance which are tested, certified and approved by independent expert and government organizations to ensure they meet – and even – exceed metrology industry guidelines. A library of testing certificates is available for reference on:

http://penko.com/nl/publications_certificates.html



PENKO Professional Services

PENKO is committed to ensuring every system is installed, tested, programmed, commissioned and operational to client specifications. Our engineers, at our weighing center in Ede, Netherlands, as well as our distributors around the world, strive to solve most weighing-system issues within the same day. On a monthly basis PENKO offers free training classes to anyone interested in exploring modern, high-speed weighing instruments and solutions. A schedule of training sessions is found on: www.penko.com/training

PENKO Alliances

PENKO's worldwide network: Australia, Belgium, Brazil, China, Denmark, Germany, Egypt, Finland, France, India, Italy, Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Syria, Turkey, United Kingdom, South Africa, Slovakia Sweden, Switzerland and Singapore. A complete overview you will find on: www.penko.com/dealers

