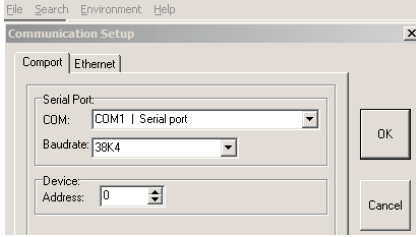


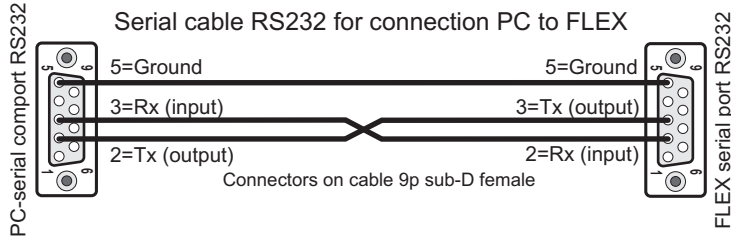
5

Programming software

By using RS232 connection:



Copy the program file PI.exe in a new map
 Start the program PI.exe.
 Select Comport in the menu Enviroment.
 Select a communication port of the PC and
 select the communication baudrate.
 All data like programs, labels etc. will be
 stored in the map where you start PI.



ONLY THE FLEX CONTROLLER IS FREE PROGRAMMABLE.

6

FLEX series



FLEX indicator



FLEX controller



FLEX filling
Controller



FLEX check weigher
Controller



FLEX belt weigher
Controller



FLEX loss-in-weight
Controller

Box contains:

- * FLEX
- * EURO cable
- * Rubber seal
- * Load cell connector



FLEX 4ch.

Indicator / Controller

Quick Start

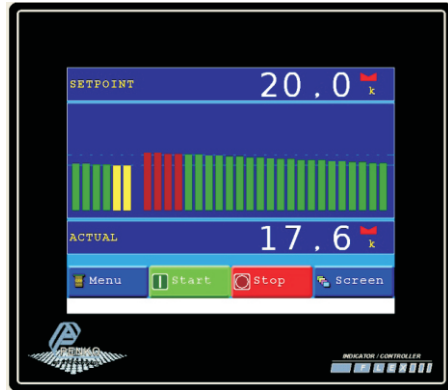
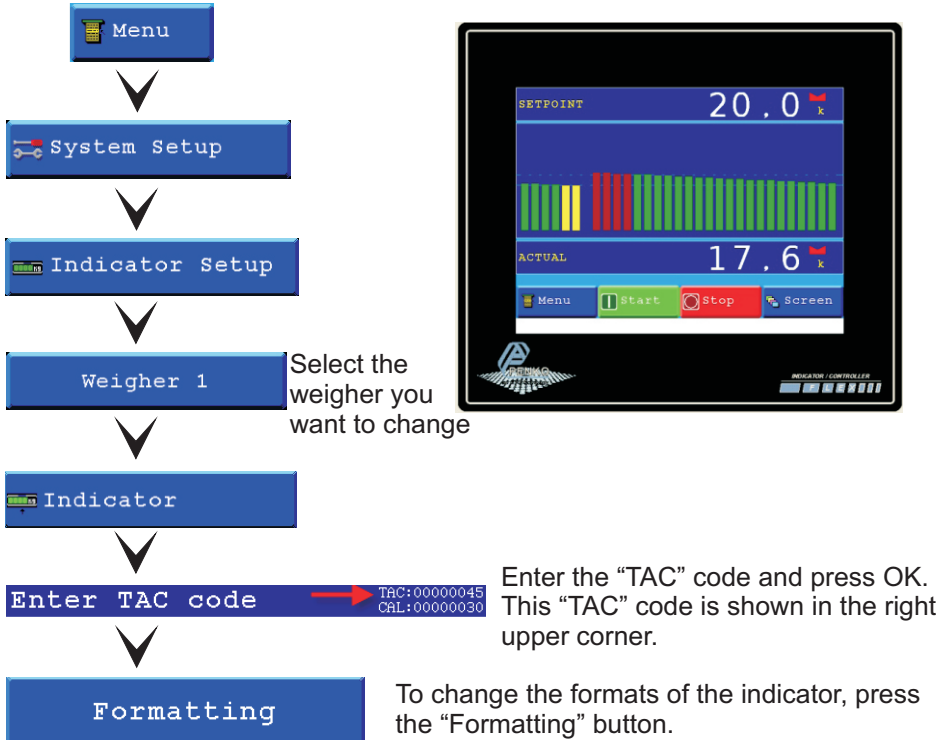
- 1 First use of the indicator
- 2 Loadcell connections
- 3 I/O connections
- 4 Communication ports
- 5 Programming software
- 6 FLEX series

For more information visit:
www.penko.com



Update MB
 06-09-2012 R3
 7600M1033

To setup the display step size, follow the steps below.



The step size defines the scaled parts of the weight value.

Example: Weigher value is 2006 kg

Step size	Display value
1	2006 kg
2	2006 kg
5	2005 kg
10	2010 kg

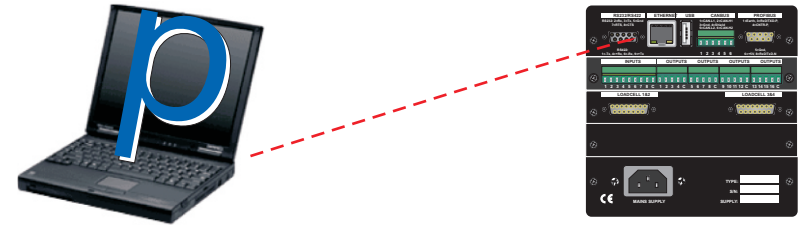
The display value will be round off to the nearest value with a valid step size.

Step size can be set at 1, 2, 5, 10, 20, 50, 100 or 200.



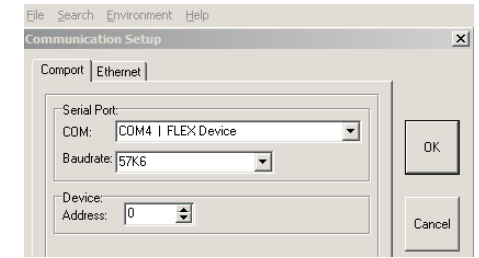
The Decimal point defines the point position of the weight value.

Decimal point position can be set from NONE to 0,00000.



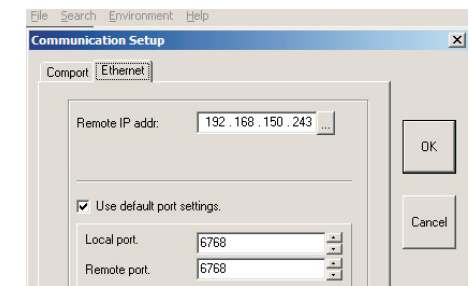
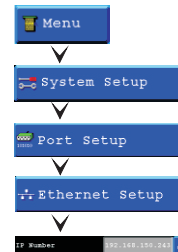
By using USB connection:

- Install program PI on your computer downloadable from www.penko.com, the setup will create a map on your computer with PI and the USB driver (C:\Program Files\Penko Engineering\Pi)
- Connect the USB cable to your computer & the FLEX
- Follow the install wizard and install the driver
- Start PI and select Comport in the menu Environment
- Select the COM with FLEX Device
- Select OK to continue
- The FLEX is now connected to your computer and ready for programming



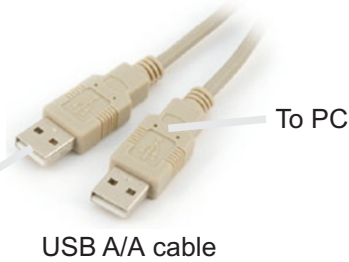
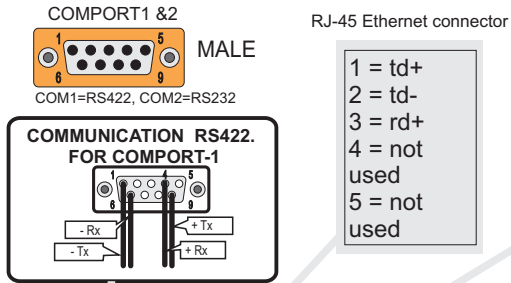
By using ETHERNET connection:

- Install program PI on your computer downloadable from www.penko.com, the setup will create a map on your computer with PI (C:\Program Files\Penko Engineering\Pi)
- Connect the ETHERNET cable to your computer & the FLEX
- Follow the following steps to get the IP address of the FLEX

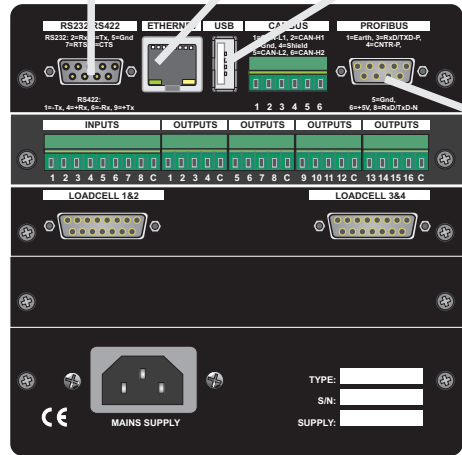
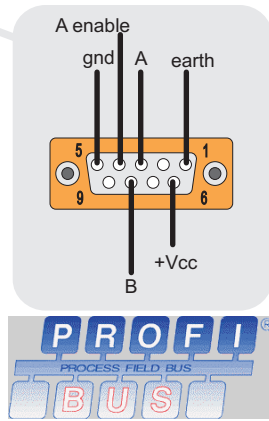


- Write down the IP address
- Start PI and select ETHERNET in the menu Environment
- Enter the FLEX IP address
- Select OK to continue
- The FLEX is now connected to your computer and ready for programming

CONNECTIONS:
PROFIBUS, ETHERNET, USB, RS232 & RS422

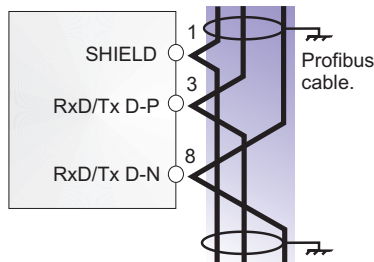


PROFIBUS PORT CONNECTIONS

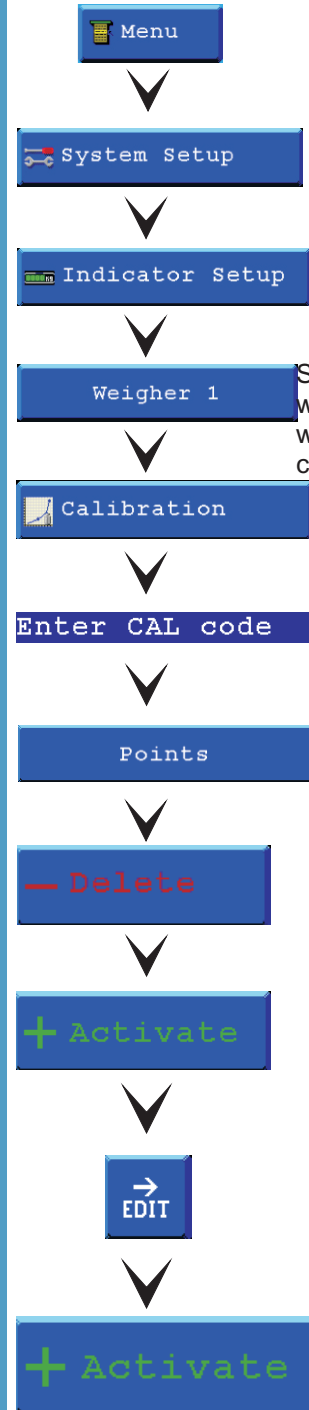


PROFIBUS connector wiring:

PIN No:	SYMBOL:	NAME:	NAME:
1:		SHIELD	SHIELD Protective Ground
2:		RP	Reversed for Power
3:	B/B	RxD/TxD-P	Receive/Transmit-data-P
4:		CNTR-P	Control-P
5:	C/C:	DGND	Data Ground
6:		VP	Voltage plus
7:		RP	Reserved for Power
8:	A/A	RxD/TxD-N	Receive/Transmit-Data-N
9:		CNTR-N	Control-N



To calibrate the indicator, follow the steps below.



Select the weigher you want to change

TAC: 00000045
CAL: 00000030

Enter the "CAL" code and press OK. This "CAL" code is shown in the right upper corner.

Delete all old calibration points

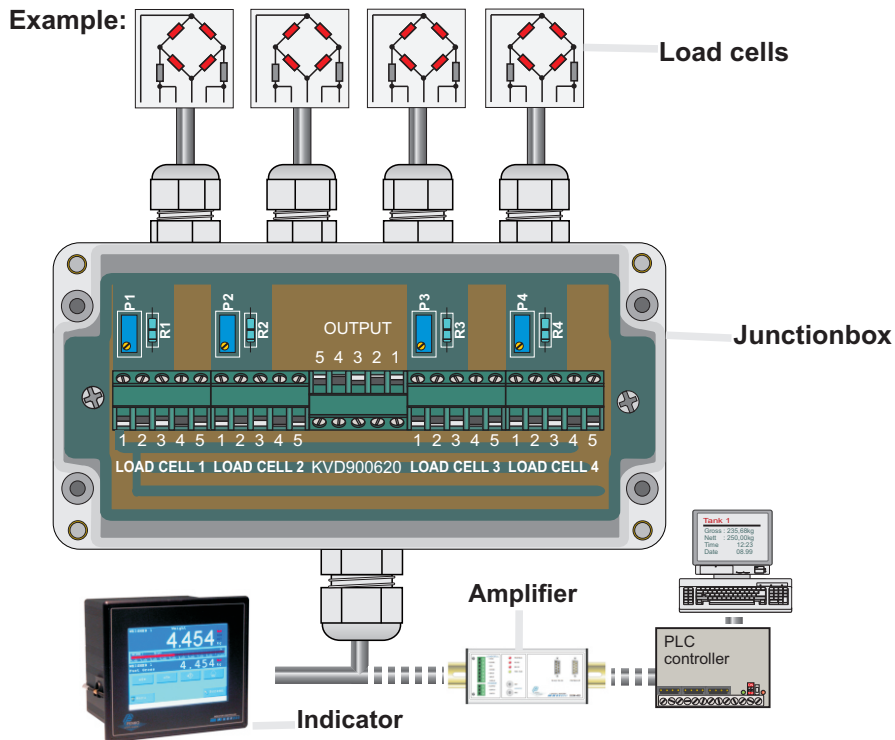
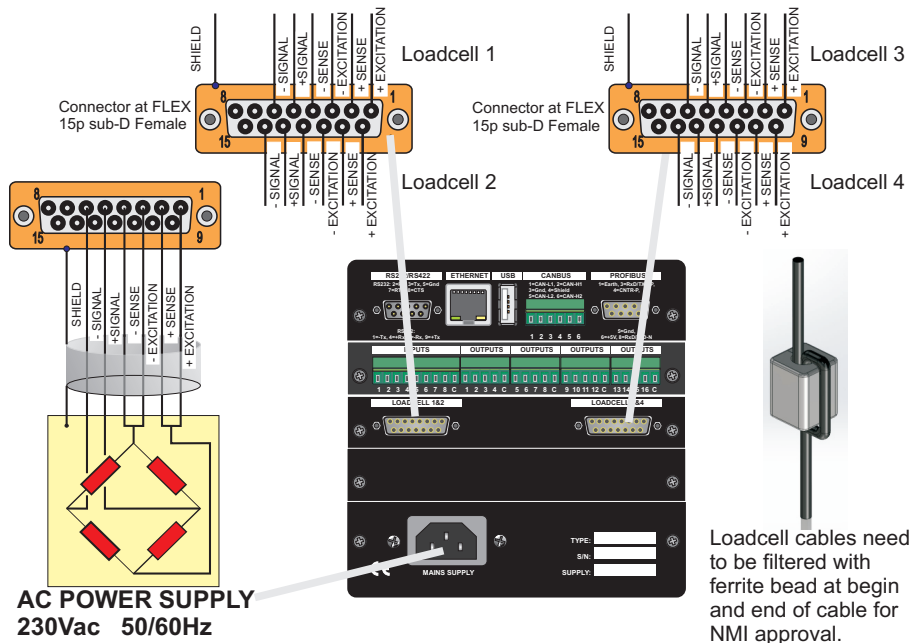
Make sure the weigher is empty and press the "+Activate" button to save the zero point

Press "EDIT" and put a reference weight on the weigher
Type in the weight of the reference and press OK

To save the second point press the "+Activate" button

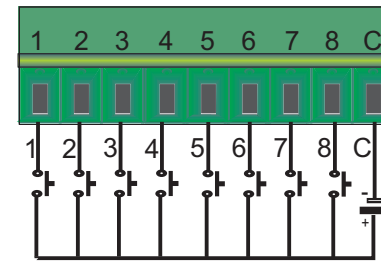


Loadcell(s) wiring connections



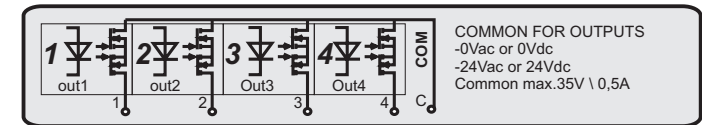
I/O connections

Digital inputs 1-8



Input 1 to 4 normal or counter input <= 1kHz
 Before 2018: counter input <= 1kHz, on request 5kHz.
 Since 2018: counter input <= 5kHz @24Vdc with 50% duty cycle.

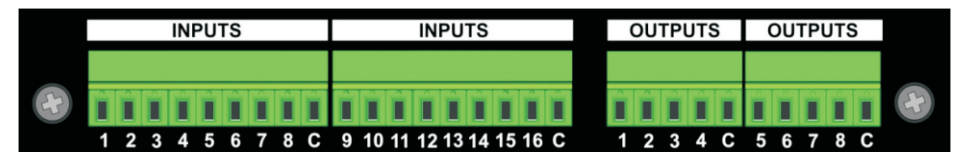
Digital outputs 1-4, 6-8, 9-12, 13-16



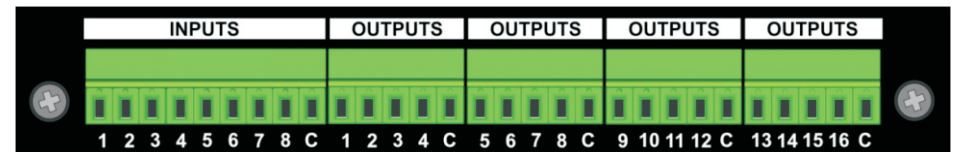
* Standard I/O module on the Flex: 8 Digital Inputs, 4 Digital Outputs



* Optional-A: 16 Digital Inputs, 8 Digital Outputs



* Optional-B: 8 Digital Inputs, 16 Digital Outputs



* Optional-C: 4 Analog Inputs, 4 Analog Outputs

