

PENKO ENGINEERING B.V.

When Weighing Counts



Product Catalogue



When WEIGHING Counts

"Weights and measures may be ranked among the necessities of life to every individual of human society. They enter into the economical arrangements and daily concerns of every family. They are necessary to every occupation of human industry; to the distribution and security of every species of property; to every transaction of trade and commerce; to the labors of the husbandman; to the ingenuity of the artificer; to the studies of the philosopher; to the researches of the antiquarian; to the navigation of the mariner, and the marches of the soldier; to all the exchanges of peace, and all the operations of war. The knowledge of them, as in established use, is among the first elements of education, and is often learned by those who learn nothing else, not even to read and write. This knowledge is riveted in the memory by the habitual application of it to the employments of men throughout life."

JOHN QUINCY ADAMS - Report to the US Congress, 1821

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Weighing by PENKO

The basic and most reliable measuring method to warrant accuracy and consistency in a process is indisputably defined by weight regardless of whether the product is a liquid, a solid mass, granules, a powder or a gas.

At PENKO Engineering B.V. we specialize in developing, manufacturing and commissioning weighing and dosing solutions for almost any application and world-wide distribution. Our in-house resources, decennia of experience and fundamental knowledge of weighing principles, create win-win solutions with proven sustainable return on investment.

The ever increasing cost of materials, growing stringent environmental regulations, consistent quality requirements and necessity of track and traceability at any given point in the process, insist that manufacturers pay more attention to quality conformity.

PENKO, a Dutch engineering company situated in the heart of the Netherlands, specializes in developing exactly these solutions. Whether you are looking for a simple stand-alone weighing system or a bespoke process automation solution, PENKO has a comprehensive off the shelf product selection you can rely on.

Customers value the no-nonsense approach of PENKO engineers and their commitment to solve standard or project based challenging weighing solutions and their self-evident commitment to services excellence.

The product spectrum includes amplifiers, indicators and controllers for high accuracy, high speed weighing and dosing applications for industrial process automation. Complete or sub-assembly units for OEMs or 'one-off' projects are commissioned as a matter of course, implementing best practices and proven standard solutions. A range of ancillary products including load cells & assemblies complete the product range for your one-stop-shop solution provider.

PENKO Engineering B.V. is a fully owned company of ETC Inc. WI, USA



FLEX Range

An elegant solution to distinctive automation processes. The FLEX is an all-in-one apparatus for automatic and non-automatic weighing applications. It has an integrated PLC, a state of the art easy to use touch screen as well as a weighing feature and forms an ideal solution for sophisticated weighing requirements of process automation in any industry. Controlling up to four different high speed weighing processes in a single instrument is just one of the unique features this range of instruments is capable of.

Need to add more complexity to the program? No problem! The FLEX Multi-Channel is expandable with additional I/O devices such as the RIO and RIA range of products.

PENKO FLEX MULTI-CHANNEL

www.penko.com/Products/Measuring-Instruments/Controllers



Certified

8 digital inputs, 16 digital outputs

Screen: touch panel

Panel mount instrument

Communication ports: Ethernet, USB, serial and CAN interface,

Communication protocols: Ethernet IP, Modbus TCP/RTU, ASCII, Fins, PENKO Web interface

Alibi memory

Measuring speed: 1600s/s

Weighers: maximum 4; Load cells: maximum 4x4

Passive sense

Free programmable

PENKO G-Cal™ auto-calibration system

Optional: • various digital in/output cards
• analogue in/output card
• PROFIBUS communication portal, protocol DP slave
• combination with shunt diode barriers (EEx-ia)

PENKO FLEX

www.penko.com/Products/Measuring-Instruments/Controllers



Certified

16 digital inputs, 20 digital outputs

Screen: touch panel

Panel mount instrument

Communication ports: Ethernet, USB, serial and CAN interface,

Communication protocols: Ethernet IP, Modbus TCP/RTU, ASCII, Fins, PENKO Web interface

Alibi memory

Measuring speed: 1600s/s

Load cells: maximum 4

Active sense

Free programmable

Standard application software: MFL (Mono-Filler), CHK (Check Weigher), BLT (Belt Weigher), LIW (Loss in Weight)

PENKO G-Cal™ auto-calibration system

Optional: • various digital in/output cards
• analogue in/output card
• PROFIBUS communication portal, protocol DP slave
• combination with shunt diode barriers (EEx-ia)



Source: Daavision B.V.

FLEX 2100

When no more than 8 digital in- and outputs are required, the FLEX2100 is a perfect cost effective solution. It is the ideal fit for smaller scale automated weighing processes.

PENKO FLEX2100

www.penko.com/Products/Measuring-Instruments/Controllers



Certified

8 digital inputs, 8 digital outputs

Screen: touch panel

Panel mount instrument

Communication ports: Ethernet, USB, serial and CAN-interface

Communication protocols: Ethernet IP, Modbus TCP/RTU, ASCII, Fins, PENKO Web interface

Alibi memory

Measuring speed: 1600s/s

Load cells : 8 maximum

Passive sense

Free programmable

Standard application software: MFL (Mono-Filler), CHK (Check Weigher), BLT (Belt Weigher), LIW (Loss in Weight)

PENKO G-Cal™ auto-calibration system

Optional:

- analogue output
- PROFIBUS communication portal, protocol DP slave

PENKO FLEX2100 Stainless Steel

www.penko.com/Products/Measuring-Instruments/Controllers



Certified

8 digital inputs, 8 digital outputs

Screen: touch panel

Desktop / wall mounted stainless steel instrument

Communication ports: Ethernet, USB, serial and CAN-interface

Communication protocols: Ethernet IP, Modbus TCP/RTU, ASCII, Fins, PENKO Web interface

Alibi memory

Measuring speed: 1600s/s

Load cells : 8 maximum

Passive sense

Free programmable

Standard application software MFL (Mono-Filler), CHK (Check Weigher), BLT (Belt Weigher), LIW (Loss in Weight)

PENKO G-Cal™ auto-calibration system

Optional:

- analogue output
- PROFIBUS communication portal, protocol DP slave



Source: PENKO Engineering B.V.

REMOTE I/O Devices

Input and output devices offer a cohesive extension to the FLEX and FLEX Multi-Channel weighing controllers. The additional I/O device gives the existing compact system an additional boost to handle complex and sophisticated weighing processes.

RIO Remote Digital I/O

www.penko.com/Products/Measuring-Instruments/Amplifiers-Digitizers



8 digital inputs, 8 digital outputs

Display shows the status of the inputs and outputs

(DIN) rail mounting

Universal, compact and remote

Easy to connect

Addition to: PENKO controller FLEX, FLEX - Multichannel

RIA Remote Analog I/O

www.penko.com/Products/Measuring-Instruments/Amplifiers-Digitizers



4 analogue inputs, 2 analogue outputs

Display shows the status of the inputs and outputs

(DIN) rail mounting

Universal, compact and remote

Easy to connect

Addition to: PENKO controller FLEX, FLEX - Multichannel



COMPACT Instruments

PENKO 1020: The 1020 device is firmly positioned mid-range in the PENKO FLEX and SGM family of indicators and controllers. Whether it is used as an indicator to measure high speed, high accuracy weighing processes or as a pre-programmed controller with standard application software, this compact device will fit almost anywhere.

PENKO 960: Down to basics without “bells and whistles” this device is simple yet highly reliable and accurate. It is rendered extremely useful for platform weighing and applications that require only elementary technology.

PENKO 1020 RANGE

www.penko.com/Products/Measuring-Instruments/Indicators



Certified

3 digital inputs, 4 digital outputs

Panel mount instrument

Communication ports: USB and Ethernet

Communication protocols: Ethernet IP, Modbus TCP/RTU, ASCII, Fins, PENKO Web interface

Alibi memory

Measuring speed: 1600 s/s

Load cells: 8 maximum

Passive sense

Controller versions: MFL (Mono-Filler), CHK (Check Weigher), BLT (Belt Weigher)

PENKO G-Cal™ auto-calibration system

Optional: • serial communication • CAN interface • PROFIBUS-DP

PENKO 1020 STAINLESS STEEL RANGE

www.penko.com/Products/Measuring-Instruments/Indicators



Certified

3 digital inputs, 4 digital outputs

Desktop / wall mounted stainless steel instrument

Communication ports: USB and Ethernet

Communication protocols: Ethernet IP, Modbus TCP/RTU, ASCII, Fins, PENKO Web interface

Alibi memory

measuring speed: 1600 s/s

Load cells: 8 maximum

Passive sense

Controller versions: MFL (Mono-Filler), CHK (Check Weigher), BLT (Belt Weigher)

PENKO G-Cal™ auto-calibration system

Optional: • serial communication • CAN interface • PROFIBUS-DP

PENKO 960 INDICATOR

www.penko.com/Products/Measuring-Instruments/Indicators



Output RS232

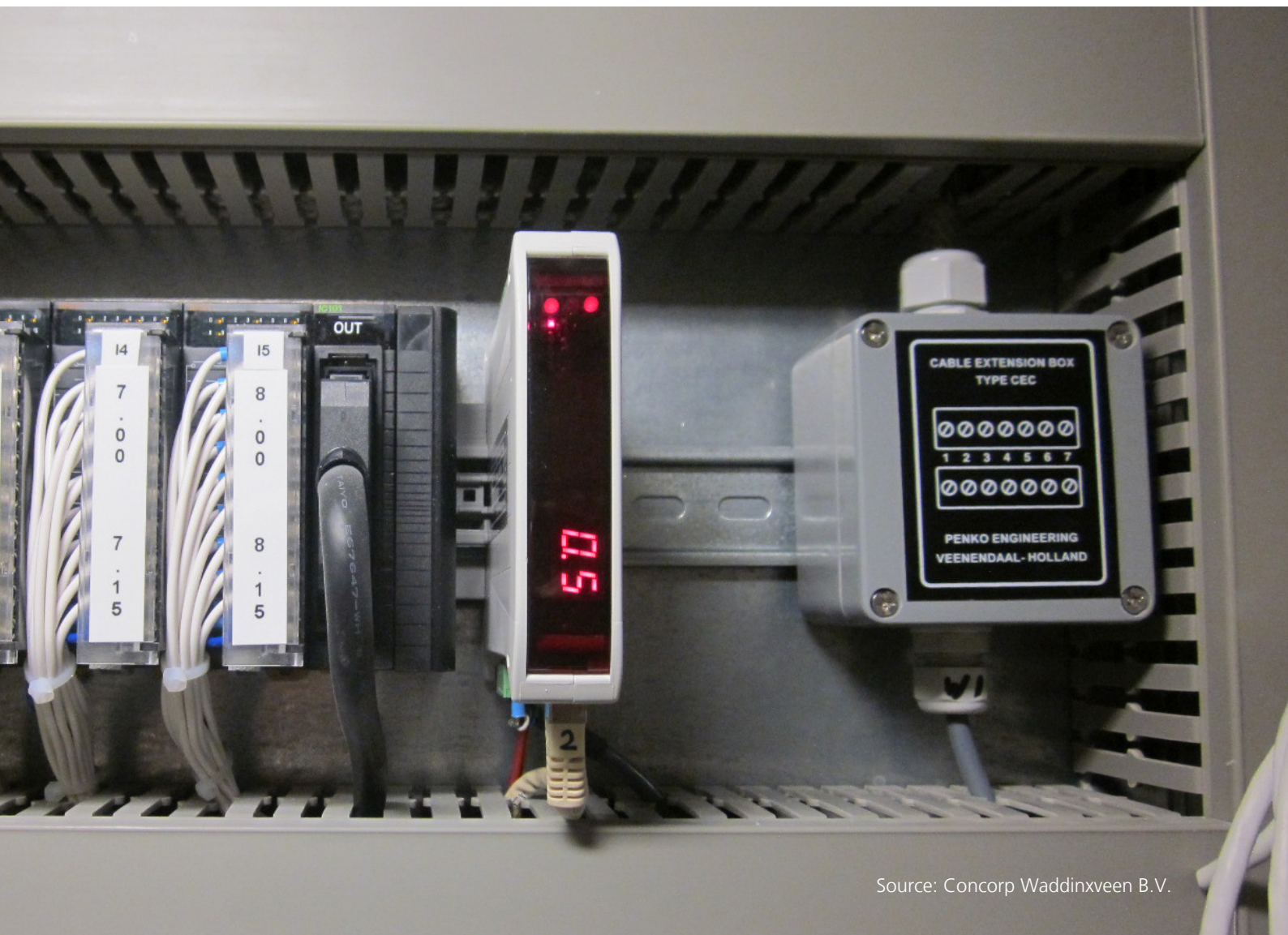
6 digital inputs, 2 digital outputs

Measuring speed: 15 s/s

Load cells: 8 maximum

Tally counter

Passive sense



SGM Range

There is no easier way of transforming a strain gauge load cell signal to a digital output signal while operating with high speeds of 1600 samples per second and pairing this to a PLC/PC. Simply add the weighing module to your system and forget about programming the application.

PENKO SGM800 RANGE

www.penko.com/Products/Measuring-Instruments



Certified

For general purpose weighing and dosing applications

Communication protocol: Ethernet IP, Modbus TCP/RTU, ASCII, Fins, PENKO Web interface

Alibi memory

SGM810: 0/4 – 20/24 mA

SGM820: Ethernet

SGM830: CAN-bus

SGM840: Profibus

SGM850: RS232/422

Measuring speed: 1600s/s

Load cells: 8 maximum

Standard application software: MFL (Mono-Filler), CHK (Check Weigher), BLT (Belt Weigher)

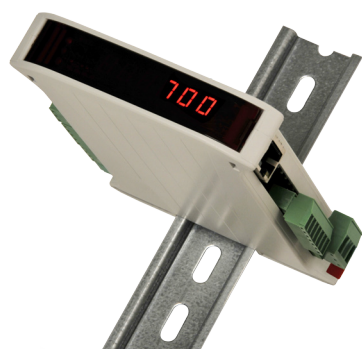
(DIN) rail mounting

All versions include: PENKO G-Cal™ auto-calibration system

Optional: analogue output

PENKO SGM700 RANGE

www.penko.com/Products/Measuring-Instruments



For general purpose weighing and dosing applications

Communication protocol: Ethernet IP, Modbus TCP/RTU, ASCII, Fins, PENKO Web interface

Alibi memory

SGM710: 0/4 – 20/24 mA

SGM720: Ethernet

SGM730: CAN-bus

SGM740: Profibus

SGM750: RS232/422

Measuring speed: 1600s/s

Load cells: 8 maximum

(DIN) rail mounting

All versions include: PENKO G-Cal™ auto-calibration system

Optional: analogue output



Load Cells, Mounts & Assemblies

A load cell is a sensor “translating” the load or force applied to the sensor into an electrical signal. They are the most widely used load transducers in all areas of weight measurement from retail scales, process industry through to medical applications.

Internationally recognized standards such as defined by the OIML, have greatly influenced the modus operandi of manufacturers worldwide.

PENKO Engineering B.V. stocks the most commonly industrial applied load cells in various capacities for off-the-shelf immediate delivery. Specials are available on request.

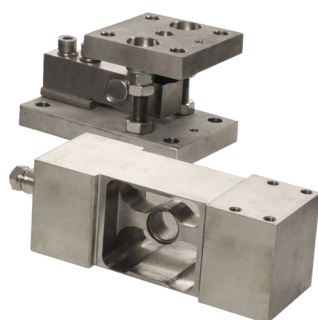
Load Cells

Load cells are based on a strain gauge principle and cover ranges from 0 to 0.3kg full-scale deflection up to 0 to 600,000 kg with accuracy classifications from 0.1% to 0.015%. On request the majority of load cells can be supplied with a certificate for trade applications.



Load Cell Types

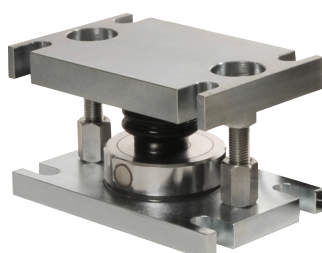
www.penko.com/Products/Load-Cells



Single Point	Aluminium - Alloy steel - Stainless Steel
Shear Beam	Alloy steel - Stainless Steel
Bending Beam	Stainless Steel
Planar Beam	Aluminium
Hydraulically - Damped	Aluminium - Alloy steel - Stainless Steel
Tension Load Cells	Aluminium - Alloy steel - Stainless Steel
Double Ended Shear Beam	Alloy steel - Stainless Steel
Compression - Column	Alloy steel - Stainless Steel
Special Purpose	Alloy steel
Torque Ring	Stainless Steel

Mounts & Assemblies

www.penko.com/Products/Load-Cell-Accessories/Mounting-assemblies



Mounting assemblies for: Bending beams, Shear beams, Planar beams, Tension load, Double ended Shear beams, Column Torque ring
Material: stainless steel, alloy steel, aluminium
Silent blocks
T-end feet



Load Cell Accessories

Load cell accessories come in handy for an all-round complete weighing system, however determining the relevant and appropriate equipment can be a challenge. Not only does PENKO supply all required accessories, but stand at the ready to assist with the decision on appropriate equipment needed such as load cell cables, mounting and kits & load cell combinations, cable extensions, printers, connectors, weights etc.

Junction Box

www.penko.com/Products/Electrical-Accessories



Connection box for up to 4 load cells

Screw connection

Potentiometers

Enclosure: reinforced fiberglass polyester, 5 cable glands

Protection class IP65

Extension Box

www.penko.com/Products/Electrical-Accessories



Used for extending load cell cable

Enclosure: reinforced fiberglass polyester, 2 cable glands

Protection class IP65

Cables

www.penko.com/Products/Electrical-Accessories
[Load-Cell-Connection-Accessories](#)



Load cell cable, 6-wired

Shielded

LCS-3

www.penko.com/Products/Electrical-Accessories



Particularly useful in a test environment

Simulates load cell signal of a weigher with up to 4 load cells

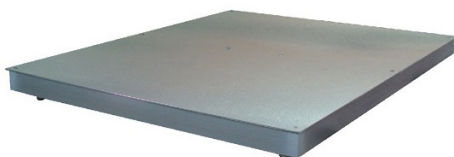


Source: PENKO Engineering B.V.

Platforms

PENKO offers industrial platforms with dimensions ranging from 150 mm x 150 mm up to 4m x 1,5m and weighing Capacities from 0 – 3 kg up to 0 – 6.000 kg. The finish options include stainless steel and alloy steel. Custom made platforms of any size and weighing capacity can be designed and manufactured to client specification.

Platforms

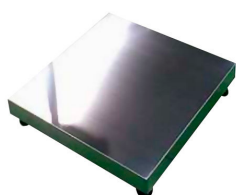
www.penko.com/Platforms

B4C Range	Alloy Steel, Stainless Steel Dimensions: 800 x 800 mm up to 4000 x 1500 mm Capacities: 0 – 300 kg up to 0 – 6.000 kg
B4CR Range	Alloy Steel, Stainless Steel Dimensions: 1500 x 1500 mm up to 2 x 1,5 m Capacities: 0 – 300 kg up to 0 – 6.000 kg
BEP Ranges	Alloy Steel, Stainless Steel Dimensions: 1200 x 1000 mm up to 2000 x 1500 mm, 2500 x 1500 mm up to 4000 x 1500 mm Capacities: 0 – 300 kg up to 0 – 6.000 kg
BHE Range	Alloy Steel, Stainless Steel Dimensions: 800 x 800 mm up to 2.000 x 1.500 mm Capacities: 0 – 300 kg up to 0 – 3.000 kg low profile
BHS Range	Coated Alloy Steel, Stainless Steel Top Dimensions: 800 x 800 mm up to 2.000 x 1.500 mm Capacities: 0 – 3 kg up to 0 – 3.000 kg
BMC Range	Alloy Steel, Stainless Steel Frames and Cover Dimensions: 300 x 300 mm up to 800 x 800mm Capacities: 0 – 3 kg tot en met 0 – 600 kg
BPP Range	Stainless Steel Dimensions: from 300 x 3000 mm Capacities: 0 – 300 kg up to 0 – 3.000 kg
M-MI Range	Alloy Steel, Stainless Steel Dimensions: 150 x 150 mm up to 800 x 800 mm Capacities: 0 – 3 kg up to 0 – 1.000 kg
S-SI-range	Alloy Steel, Stainless Steel Dimensions: 800 x 800 mm, up to 500 x 1500 mm. Capacity: 0 – 300 kg up to 0 – 3.000 kg

Platforms

www.penko.com/Platforms

SCCELL SENSOR



PTC Range	Coated Alloy Steel, Stainless Steel Top Dimensions: 800 x 800 mm up to 2000 x 1500 mm Capacities: 0 – 3 kg up to 0 – 3.000 kg
WPL Range	Stainless Steel Dimensions: 800 x 800 mm up to 2000 x 1500 mm Capacities: 0 – 3 kg up to 0 – 3.000 kg



Source: Van Duijnen Horeca Service BV

Software

Software is the intelligence of PENKO instruments. In addition to standard loaded software, the software can be custom made to assist with set-up of controller communication and provide statistical and management data.

The PENKO website offers a number of free downloadable software applicable to most in-house developed instruments. The software allows controller communication, data analysis and data management.

Weighing Accuracy Calculator

www.penko.com/Software



The weighing accuracy tool helps you to choose the correct load cell for the job. This is a free downloadable program.

Pi Mach II

www.penko.com/Software



Pi Mach II is a comprehensive freeware program for monitoring configuration and programming a PENKO device. Available features include firmware update manager, management and tool for parameters, oscilloscope functionality to explore filters as well as programming and visualization tools for the FLEX range. USB drivers are included in the installer.

Job Manager XE

www.penko.com/Software



Job Manager freeware, an additional software to Pi Mach II, assists in organize custom made programs for FLEX Range.

PDI Client

www.penko.com/Software



PDI Client allows you to configure PENKO devices through several communications ports such as Ethernet IP, USB or html.

PENKO USB Drivers

www.penko.com/Software

USB drivers are available for all products.

Data -Reporter

www.penko.com/Software



Data-Reporter enables import and export of data to and from a PENKO controller. It stores the data on a PC hard disk in a .csv format.

E-Marking

www.penko.com/Software



In conjunction with a PENKO controller the certified e-marking software program offers efficient and cost saving dosing according to regulations of the European Directive for trade.



Source: PENKO Engineering B.V.

Experienced Research and Development

Our experienced and committed R&D team is compelled to develop new products and is charged with creating innovative and competitively priced instruments to meet the ever evolving demands for innovation on modern industrial processes. All PENKO instruments are developed, manufactured, and tested in-house and certified by independent expert and government organisations to ensure they meet or exceed metrology industry guidelines. A library of test certificates is available at www.penko.com/publications.

Custom projects

PENKO Engineering B.V. assembles product components into custom made systems. We design and build 'one-off' custom products on a project basis and work closely with industrial users to ensure that products are developed and modified in accordance with customer specifications.

Professional Services

PENKO is committed to ensure every system is installed, tested, programmed, commissioned and operational to client specifications. Our engineers, at our weighing center in Ede, The Netherlands, as well as our distributors around the world, strive to solve most weighing-system issues within the same day.

Process Automation

Management information systems are valuable for managing product recipes, develop production orders, inventory tracking, finished goods management and track & tracing, to name but a few benefits.

Weighing and dosing systems offer optimal control of processes. The high sampling rate and high internal resolution make the instruments ideal for high accuracy and high speed industrial use. Various designs, single- and multi-channel, with various forms of communication, offer a selection of options suitable for most environments. If needed, the control concept can be enhanced by PLCs and HMIs.

Industrial load cells are delivered in aluminum, steel or stainless steel, protection classes up to IP68 and EEx-ia safety features making them suitable for all operating conditions. The measurement ranges from 0.3 kg to 600 tons per sensor and holds an accuracy up to and including C6, 0.0083%.

Fully engineered control panels of any size, distributions up to and including 1600 A, are delivered in painted or stainless steel and include motor switches, electronic speed controllers, control valves etc.

Specialized e-mark software tools guide the filling of produce and delivery of finished goods in accordance with the Metrology Act and EU regulations.

Before



A skilled sales representative is highly motivated to ensure customers obtain the appropriate equipment to do the job. Trust and dedication to deliver a suitable solution, drives customer satisfaction.

During



Professional supervision of the installation, including calibration, proto-typing and test runs are of paramount importance to ensure the desired outcome.

After



Service Level Agreements, are formally defined in PENKO's Service Contracts, ensuring uninterrupted continuation of processes.



Source: Kelderman Bouw

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 exceed metrology industry guidelines. A library of testing certificates is available for reference on www.penko.com

PENKO is a member of the Association of Dutch Suppliers of Weighing Equipment (VLW) and represented in the European Weighing Association (CECIP).



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