

# PENKO ENGINEERING B.V.

Optimising Precision Weighing



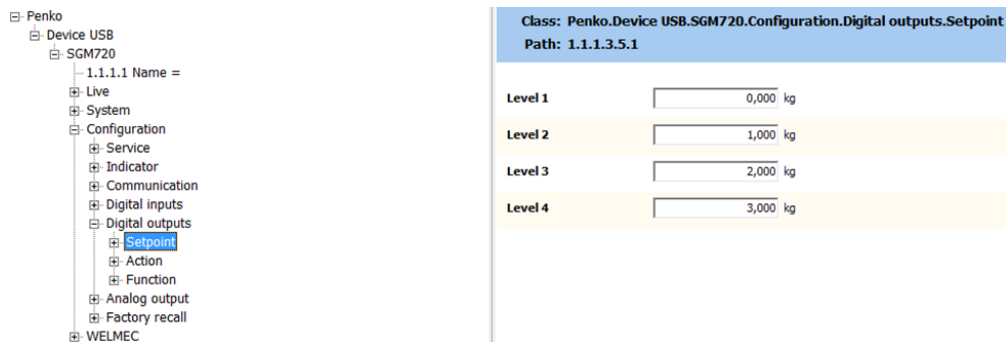
## SGM700 Digitizer Series

# PENKO Engineering B.V.

## SGM700 Digitizer Characteristics

### SGM700 Series for force measurement, automatic and non-automatic weighing

The SGM700 Series offers solutions for problem free connections of strain gage load cell based measuring with any supervisory and/or control system. The Series exists of 6 digitizers with different communication options. They all are easy dinrail mountable, and can be used as a standalone digitizer or as a buslink system. Up to 32 digitizers can be coupled in one buslink system. Configuration of the device can even be done from behind your desk using PENKO's freeware PI Mach II Manage.



#### Saving space with more flexibility & functionality

- Time-saving G-Cal™ technology (Geographical Calibration) for fast and accurate calibration without using weights anywhere on the planet
- Compact housing with standard built in 3 DI and 4 DO built in (except model SGM710)
- Backup and restore function through USB connection
- Option analog output

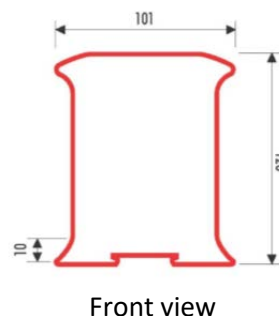
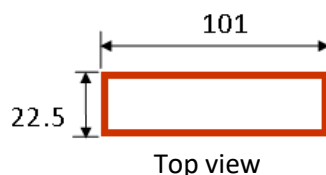
#### Speaks the language of your device

- USB and optional RS232, RS422, Ethernet, Profibus and Profinet.
- Various industrial protocols like Ethernet IP, Modbus TCP, Modbus RTU, FINS, Profibus DP and Profinet.
- Communicates conveniently via remote devices

#### High performance

- 1600 samples per second
- 24 bit internal resolution

## SGM700 Digitizer Dimensions



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## SGM700 Digitizer Specifications

Type	SGM700	SGM710	SGM720	SGM740	SGM750	SGM760
Wiring	With sense					
Type of sense	Passive					
Power supply	18-32 Vdc; 4 W max.					
Load cell power supply	5 Vdc					
Sensitivity	0,1 μV/d					
Selectable ranges	1; 1.5; 2; 2.5; 3 mV/V					
Input voltage Unipolar @3mV/V	-1 mV to +16 mV					
Input voltage Bipolar @3mV/V	-16 mV to +16 mV					
A/D Conversion speed	1600/s					
Max. load cell impedance	1200Ω					
Min. Load cell impedance	43,75 Ω					
Max. no. of load cells	350 Ω	8				
	1000 Ω	22				
Max. number of d	10.000					
Display resolution	100.000					
Internal resolution	24 bits					
Display steps	1,2,5,10,20,50,100,200					
Display size	6 x 7 segments LED 0,3''					
Inputs, 24 V	3; 18-28Vdc, PNP or NPN or Counter inputs <= 1kHz @ 24VDC with 50% duty cycle	0	3; 18-28Vdc, PNP or NPN or Counter inputs <= 1kHz @ 24VDC with 50% duty cycle			
Outputs, 24 V; PNP or NPN	4; Max. 35V / 0.5A	0	4; Max. 35V / 0.5A			
Analog output	Option	Yes; 0/4-20/24mA, 10.000d	Option			
Communication	RS232/422	No	No	No	Yes	No
	Ethernet	No	No	Yes	No	No
	USB	Yes	Yes	Yes	Yes	Yes
	Profibus	No	No	No	Yes	No
	Profinet	No	No	No	No	Yes
Operating temperature	-10°C to +40°C					
Storage temperature	-20°C to +70°C					
Relative Humidity	Max. 85% non-condensing					
Protection class	IP20					
Weight	± 150g					

**This product is intended to be supplied by a Class 2 or Limited Power Source, rate 18 - 32 Vdc, 0.4A @24Vdc.**



**PENKO**

an ETC Company



### About PENKO

At PENKO Engineering we specialize in weighing. Weighing is inherently chemically correct, independent of consistency, type or temperature of the raw material. This means that weighing any kind of material guarantees consistency and thus, it is essential to sustainable revenue generation in any industry. As a well-established and proven solution provider, we strive for the ultimate satisfaction of custom design and/or standard applications, increasing your efficiencies and saving you time, saving you money.

Whether we are weighing raw materials, components in batching, ingredients for mixing or dosing processes, - or weighing of static containers and silos, or - in-motion weighing of railway wagons or trucks, by whatever means required during a process, we are essentially forming vital linkages between processes and businesses, anywhere at any time. We design, develop and manufacture state of the art technologically advanced systems in accordance with your strategy and vision. From the initial design brief, we take a fresh approach and a holistic view of every project, managing, supporting and/or implementing your system every step of the way. Curious to know how we do it? <http://www.penko.com>

### 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:

[www.penko.com/nl/publications\\_certificates.html](http://www.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. Training sessions on request: [www.penko.com/training](http://www.penko.com/training)



### PENKO Alliances

PENKO's worldwide network: Australia, Brazil, China, Denmark, Germany, Egypt, Finland, France, India, Italy, Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Syria, Turkey, United Kingdom, South Africa, Slovakia Sweden and Switzerland, Singapore.

A complete overview you will find on: [www.penko.com/distributor](http://www.penko.com/distributor)

