

SD2103 WEIGHING AMPLIFIER

- The SD2103 is a very accurate, fast and multifunctional Weighing amplifier

- Very accurate
 - e10000 class III
 - 24 bits

- Certified to
 - EN45501 / OIMLR76

- Fast
 - conversion rate adjustable up to 1250Hz

- Digital Filtering
 - FIR
 - Moving average

- Log function

- Network capability
 - Profibus
 - USB Service connector

- With powerful PC configuration software

- DIN rail Mounting



Applications

The SD2103 is suitable for nearly all industrial weighing processes. It provides accurate weighing and is easy to link to other devices.

Network options

The SD2103 can simply be used in a network to cooperate with the SD2100 controller, external PLCs or other industrial PCs.

Communication

Communication via USB and Profibus.

Digital filtering

Two adjustable digital filters (FIR and Moving Average) ensure that unwanted vibrations and interfering frequencies will be filtered out from the loadcell input signal.

Logging inputweight

The log function enables the user to gain a clear insight on the effects of the digital filters on the input weight. This information can be stored into a CSV- formatted file and can simply be imported into other PC applications.

Configuration and Calibration

The SD2103 can be configured and calibrated easily by means of the enclosed SD-Config software via USB.

Diagnostic functions

Various diagnostic functions for easy readout of the communication status and other useful information. This saves a lot of time if troubleshooting in communication processes is required.

SD2103

Applications:

- Machine engineering
- Processing industry
- Asphalt - and concrete processing
- Heavy-duty transport
- Bulk cargo industry
- Poultry processing
- Dairy industry
- Synthetics processing
- Pharmaceutical industry

Specifications:

Loadcell input

Number of inputs	1
Loadcell type	1, 2, 4, 8 mV/V
Loadcell connection	4 or 6 wire
Minimum impedance	87 Ω
Excitation voltage	5 Vdc
	(square wave) 5 Vac
Max. excitation current	80 mA
Resolution	24 Bits
Conversion speed	53, 100, 250, 500, Hz
	750, 1000, 1250
Digitale filtering	Moving average, FIR

Approval

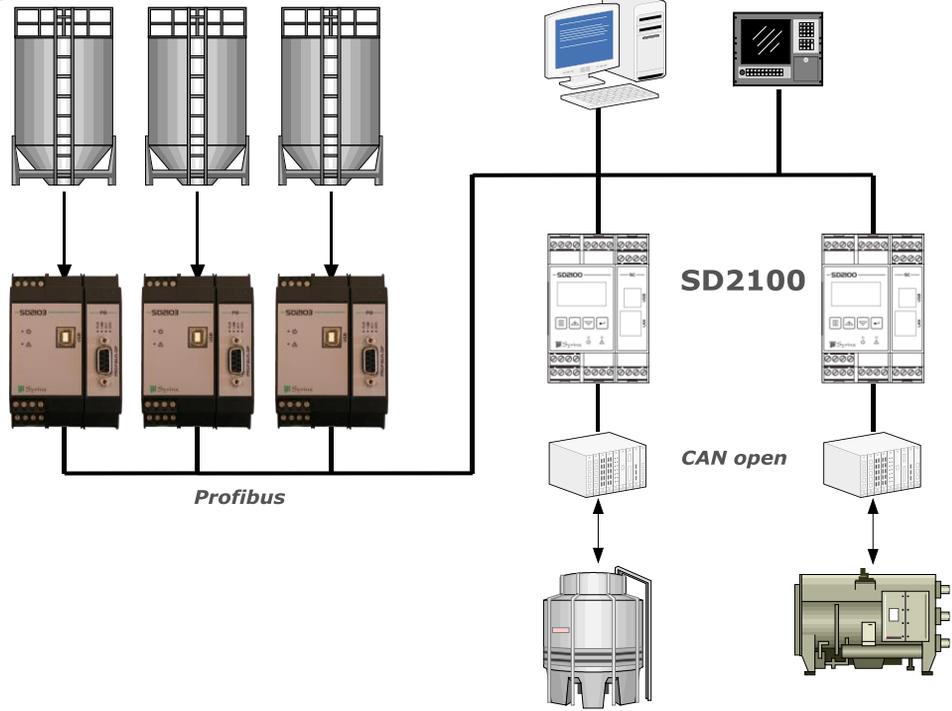
Standard	OIML R076-2-e93, EN45501	
Certification number	TC7553	
Certification class	III	
Divisions	≤ 10000	
Temperature range	0 ... 40 °C	

Communication

Profibus	Profibus-DP (Slave)
USB Service connection	1.1 / 2.0
Protocol	SD-Config

Ordernumbers

95002005	SD2103
95100003	Calibration sealing set (labels for sealing in certified applications)



Supply

Supply voltage	20 ... 30 Vdc
Max. Power consumption	3.5 W

Temperature Range

Storage	-20 ... 70 °C
Operating (non-certified)	-10 ... 40 °C
Operating (certified)	0 ... 40 °C

Mechanical

Mounting	35mm DIN rail
Dimensions SD2103	L99x W68 x H114 mm
Protection class	IP20
Connectors	Removable screw terminals
Weight	xxxxx g

Information:


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