SD2102 WEIGHING AMPLIFIER

Syrinx
WEIGHING ELECTRONICS

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SD2102 WEIGHING AMPLIFIER

Applications
The SD2102 is suitable for nearly all industrial weighing processes. It provides accurate weighing and is easy to link to other devices.

Network options
The SD2102 can simply be used in a network to cooperate with the SD2100 controller, external PLCs or other industrial PCs.

Communication
Several communication options via USB, CANbus and RS485 or RS232.

Digital filtering
Two adjustable digital filters (FIR and Moving average) ensure that unwanted vibrations and interfering frequencies will be filtered out of the load cell input signal.

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

Configuration and Calibration
The SD2102 can be configured and calibrated easily by means of the enclosed SD-Config software or via the Ethernet port by means of the Modbus-TCP protocol.

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

The SD2102 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 filters
FIR
Moving average

Log function

Network capability
CANbus
RS485 or RS232
USB

With powerful PC configuration software

DIN-rail mounting

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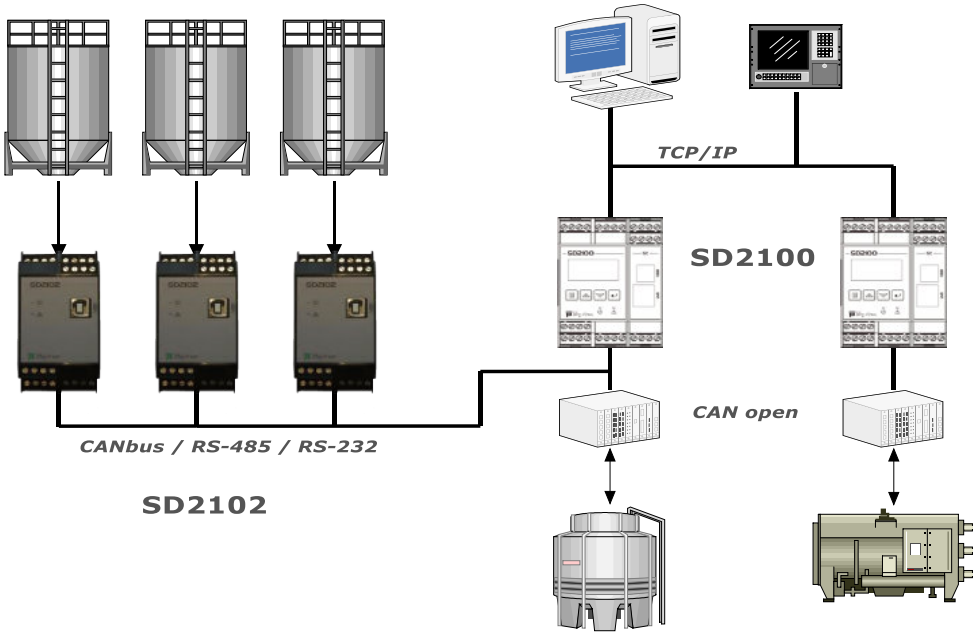

Applications

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

Load cell input

Number of inputs	1
Type	1, 2, 4, 8 mV/V
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, 750, 1000, 1250 Hz
Digital filtering	FIR, Moving average

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

Approval

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

Mechanical

Mounting	35mm DIN-rail
Dimensions	L99 x W45 x H114 mm
Protection class	IP20
Connectors	Removable screw terminals
Weight	256 g

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Communicatie

CANbus	62,5 … 500 kBd
Protocol	CANopen
RS485 of RS232	1200 … 115200 Bd
Protocol	Modbus RTU, ASCII, ASCII Log
USB	1.1 / 2.0
Protocol	SD-Config

Bestelnummers

95002003	SD2102
95100003	Calibration sealing set (labels for sealing in certified applications)