

SD2101 WEIGHING AMPLIFIER



Applications

The SD2101 is suitable for nearly all industrial weighing processes. It provides accurate weighing and is easy to link to other devices.

Network options

The SD2101 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 and Ethernet.

Digital filtering

Two adjustable digital filters (FIR and Moving average) ensure that unwanted vibrations and interfering frequencies will be filtered out from 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 SD2101 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 SD2101 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

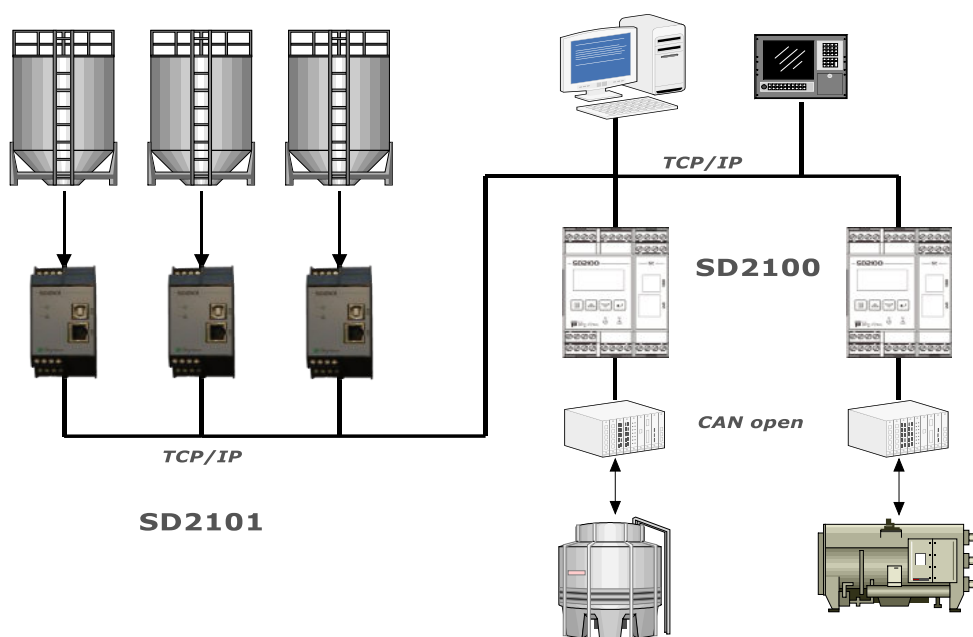
Log function

Network capability

Ethernet
USB

With powerful configuration software

DIN-rail mounting



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

Approval

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

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	L99 x W45 x H114 mm
Protection class	IP20
Connectors	Removable screw terminals
Weight	235 g

Communication

Ethernet	10/100 Mbps
Protocol	FTP, Modbus TCP
USB	1.1 / 2.0
Protocol	SD-Config

Order numbers

95002002	SD2101
95100003	Calibration sealing set (labels for sealing in certified applications)