

PCD2.W720/PCD3.W720

Dynamic weighing modules, the economical solution for weighing, dosing and optimizing material flow rates and volumes.



$\Omega \rightarrow$ kg
kg/sek.
Nm

Features of the SBC weighing measuring system

- PCD2.W720 or PCD3.W720 – 2 weighing systems for up to 6 weighing cells
- Use of all DMS weighing cells with 4 or 6 connections
- High internal resolution of 218 (~1 to 260'000 parts)
- Fully integrated into the PCD system, i.e. central automation concept with complete use of PG5 for project planning, programming and diagnostics
- Continuous control of operating states for line breaks, overloading etc.
- Digital filters, low-pass adjustable between 0.01 and 4 seconds

Main applications

Saia weighing modules PCD2.W720 and PCD3.W720 are suitable for platform, dosing or quantity balances (e.g. for granular material, fluids, etc.) and for dynamometry in technical processes.

Weighing functions

- Tare balancing, current weight excluding weighed goods
- Scaling, balance is scaled with test weight
- Differential weighing, display of weight increase per second, e.g. during fill processes
- Stationary state signal, when stable balanced state achieved
- Zero signal, message indicating that balance remains in empty position
- Zero position correction, automatic zero position adjustment

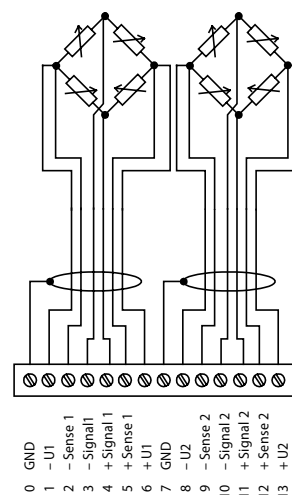
Operation

These weighing modules will run with PCD1, PCD2, PCD3.Mxxxx CPUs, and in the extensions PCD2.C100/C150/C2000 and PCD3.Cxxx.

Software configuration

For the modules PCD2.W720 and PCD3.W720 exist FBoxes with which the modul parameters may be changed and the modules may be integrated into Fupla programs.

Pin configuration



Wiring

Weighing cells usually have a connecting cable approximately 1.50 ... 2.00 m in length.

Wiring to remote weighing cells is realized with a 6-wire, shielded cable of max. length 100 m, and a connection box for common cells.

Cross-section	at 100 m:	0.75 mm ²
	at 50 m:	0.50 mm ² (AWG 20)
	at 20 m:	0.34 mm ² (AWG 22)

Technical data

PCD2/3.W720	
Weighing systems	2
Weighing cells	6

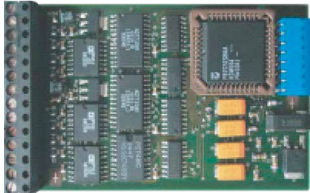
Measurement features (excluding weighing cells)

Resolution	0.001% (definition according measuring technology)
Internal resolution	2 ¹⁸ (~1 zu 260'000)
Linearity	0.01%
Temperature stability	0.001% / °C (for cells with 2mV/V)
Digital filter in A/D converter	7.8 Hz bis 822 Hz (configurable)
Post filter in controller	0.24 Hz to 100 Hz (configurable)
Rise time for 100% load	50 ms to 3 s (depending on Filter)
50 Hz and 60 Hz suppression	100 dB min.

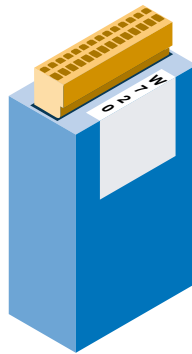
Characteristic values of weighing cells

Type of weighing cells	DMS weighing cells with 4 or 6 connections
Sensitivity	0.5 ... 4 mV/V (configurable)
Cell supply voltage	10 VDC +/- 0.5 V
Permitted load resistor per channel	> 87 Ohm (up to 4 cells in parallel connection)

PCD2.W720



Dimensions: 52 × 86 mm



PCD3.W720

Dimensions: 56 × 97 mm

Ordering information

Type	Description	Weight
PCD2.W720	Weighing module, 2 systems for up to 6 weighing cells	45 g
PCD3.W720	Weighing module, 2 systems for up to 6 weighing cells	85 g

Accessories for PCD3.W720

Type	Description	Weight
4 405 4998 0	1 Plug-in I/O spring terminal block, 14-pole for wiring up to 1.5 mm ² (type E)	13 g

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