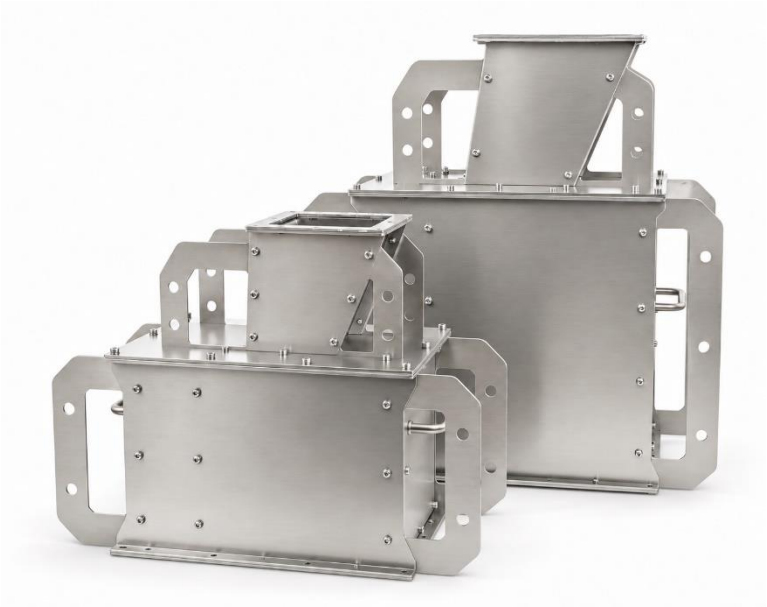
FLOW WEIGHER DC4

Dynamic measurement of flow capacity and total weight



Overview

- Accurate flow weighing system with low installation height
- Reliable and robust system with low maintenance
- Applicable for a wide range of grain, feed, bran, flour, pellets and extractions

Your benefits at a glance

- Higher measurement accuracy than the previous model
- Modular design — adaptable to site conditions
- Optimized material guidance for a stable flow onto the measuring plate
- Precision load cell suspension and an integrated flow-normalizing brake ensure repeatable measurement results
- Versatile application — flexible inlet and outlet configurations

Typical applications

- Inline weighing in processing lines and conveying systems
- Quantity measurement in silo and storage operations
- Process monitoring with increased accuracy requirements

The result: Superior precision, flexibility, and serviceability.

FRIEDRICH electronic GmbH & Co. KG
Holzmühler Weg 100 · 35457 Lollar, Germany
Tel. +49 6406 92335-0

www.friedrich-electronic.de

Description

The **Flow Weigher DC4** represents a new generation of continuous bulk material weighing — offering significantly improved **measurement accuracy, modular design and high-quality construction**. Its smart modular concept allows the system to be adapted flexibly to the available installation space. Configurable connections enable integration into both new and existing plants.

The technically refined design features a **precisely mounted load cell suspension, optimised material guidance and generously sized access openings** for easy maintenance. The DC4 combines outstanding precision, ease of use and process reliability in a system that adapts to your requirements.

Description

The *Flow Weigher DC4* consists of a housing, weighing plate, load cell and evaluation electronics.

Available sizes

The following sizes and inlet configurations are available:

Type	Inlet E30 / 0° Without inlet brake For poor-flowing products	Inlet E32/45° Incl. Inlet brake For free-flowing products	Inlet E35 / 0° Incl. Inlet brake For free-flowing products
DC4-A200	DN100 (max. 12 m³/h)	DN100 (max. 12 m³/h)	DN100 (max. 10 m³/h)
	DN120 (max. 20 m³/h)	DN120 (max. 20 m³/h)	DN120 (max. 10 m³/h)
	SQ120 (max. 20 m³/h)		SQ120 (max. 10 m³/h)
DC4-A250	DN120 (max. 20 m³/h)	DN120 (max. 20 m³/h)	DN120 (max. 20 m³/h)
	DN150 (max. 35 m³/h)	DN150 (max. 35 m³/h)	DN150 (max. 35 m³/h)
	SQ150 (max. 35 m³/h)		SQ150 (max. 35 m³/h)
DC4-A450	DN200 (max. 75 m³/h)	DN200 (max. 75 m³/h)	DN200 (max. 75 m³/h)
	DN250 (max. 130 m³/h)	DN250 (max. 130 m³/h)	DN250 (max. 75 m³/h)
	SQ250 (max. 130 m³/h)		SQ250 (max. 75 m³/h)
DC4-A660	DN300 (max. 200 m³/h)	DN300 (max. 200 m³/h)	DN300 (max. 150 m³/h)
	DN400 (max. 350 m³/h)	DN400 (max. 250 m³/h)	DN400 (max. 150 m³/h)
	SQ400 (max. 350 m³/h)		SQ400 (max. 150 m³/h)

The housing is supplied in stainless steel.

(outlet transition to round optionally available)*

Mechanical integration

The weighing unit must be installed vertically. The inlet and outlet are connected using a clamping ring at the beaded rim (round) or a flange (rectangular/round). Where vibrations occur, the inlet and/or outlet must be isolated using flexible sleeves. Large pressure differences should be avoided. Multiple feed inlets are not permitted.

Accuracy

The measuring tolerance is +/- 0.5-2 %**, depending on feed design, product homogeneity and throughput.

Evaluation electronic

- External evaluation (type FE804)
- With 4.3” touch-display, webserver (via Ethernet-connection)
- Display of capacity and totalizer
- Preselection function, after expiry of a desired amount, an output is switched
- Output of kg-pulses
- Analogue output of capacity (0-10 V), 4-20mA optionally
- RS232/485-interface, Profibus DP, Profinet I/O, Modbus TCP, Ethernet/IP optionally

** Due to our policy of continuous development, given specifications and data are subject to change.*
***Related to working range of 20-100% of maximum capacity.*