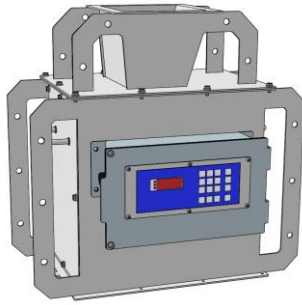


FLOW WEIGHER DC4

Component	Weighing unit
Series	400

Picture



Description

Continuous weighing of flowing bulk solids at low installation height. The bulk is fed through the inlet and lead through a curved baffle plate. The measured force is proportional to the throughput. Flowable products can be measured, e.g. raw materials, grains, pulses, granules, malt, pellets, soya, diverse bruised grains and bran.

Technical specifications

Applicable products	Flowable bulk solids
Enclosure material	Stainless steel (AISI 304), option: AISI 316
Material of baffle plate	Stainless steel (AISI 304), option: AISI 316
Standard colour:	Stainless steel (AISI 304), option: AISI 316

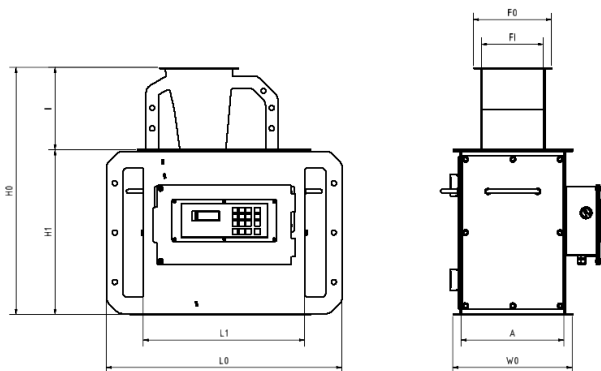
Size	Nominal pipe diameter	Range of capacity	In case of wheat 0.75 t/m ³	Weight
DC4.120	120 mm	2-20 m ³ /h	1-15 t/h	20 kg
DC4.150	150 mm	3-35 m ³ /h	3-26 t/h	20 kg
DC4.200	200 mm	7-75 m ³ /h	5-56 t/h	35 kg
DC4.250	250 mm	10-130 m ³ /h	9-98 t/h	35 kg
DC4.300	300 mm	15-175 m ³ /h	11-131 t/h	65 kg
DC4.350	350 mm	25-225 m ³ /h	19-170 t/h	65 kg

Accuracy: +/- 0,5 – 1 %*, with constant flow / related to working range of 20-100% of maximum capacity.

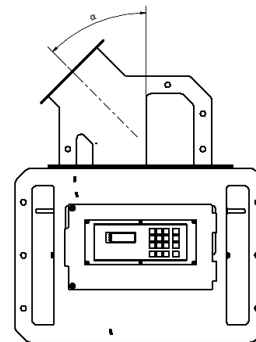
Dimensions

Product inlet at top, product outlet at bottom

Product feed 0°



Product feed 45°



Size	A	FI	F0	H0	H1	I	L0	L1	W0	α
	DC4-A250.120	250	120	160	600	400	200	572	392	290
DC4-A250.150	250	150	200	600	400	200	572	392	290	45°
DC4-A450.200	450	200	250	900	600	300	880	650	500	45°
DC4-A450.250	450	250	300	900	600	300	880	650	500	45°
DC4-A660.300	660	300	360	1200	800	400	1148	868	720	45°
DC4-A660.400	660	400	460	1200	800	400	1148	868	720	45°

Please mind:

For products with particular flow characteristics, there are special inlet versions with adapted product guiding.

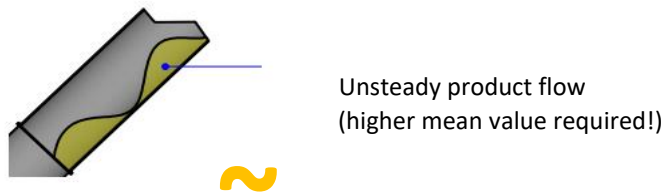
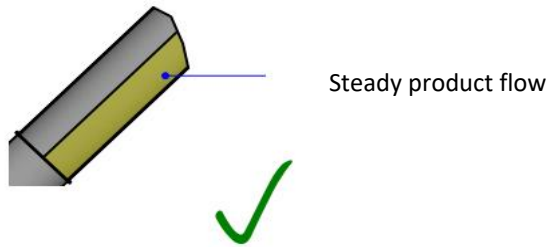
FLOW WEIGHER DC4

Component	Weighing unit
Series	400

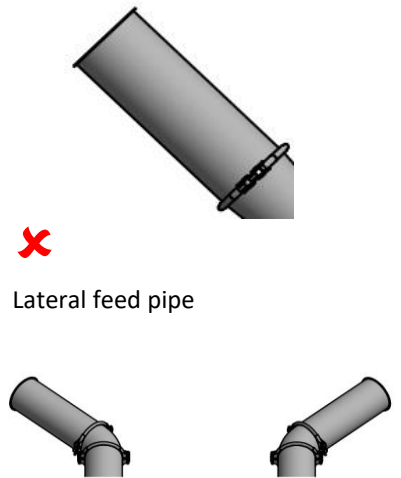
Installation Remark

The required bulk flow direction is achieved by the correct pipe feeding, as noted below. An optimal weighing is ensured by a constant bulk flow. Strong fluctuations of the bulk solid flow rate are to be avoided. A constant feed height is recommended.

Flow characteristics

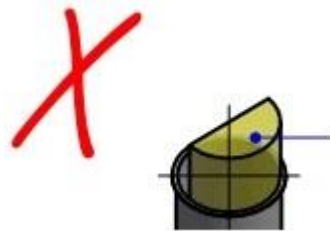
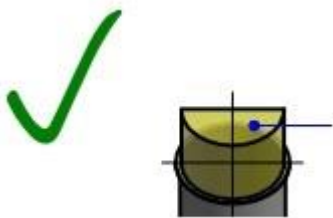


✓
Straight feed pipe



Product flows at the bottom of the pipe

Product has lateral drift



Installation

The weighing unit should be assembled so that the main housing with the attached load cell is exactly vertical. It is important that there are no sources of vibration where the unit is installed. A mechanical decompensation is recommended in such case. If conveying continues pneumatically, pressure compensation must be provided.



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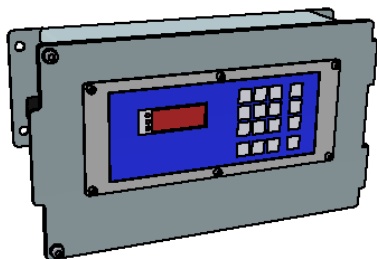
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FLOW WEIGHER DC4

Component	Integrated evaluation electronic
Series	FE730

Picture



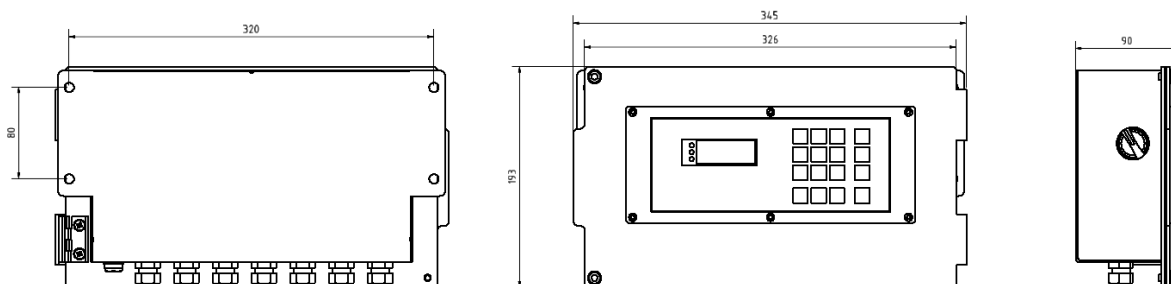
Description

The evaluation electronic processes the measuring values which are transferred from the weighing unit and continuously calculates the actual flow rate and the total amount. Limit values, batch preselection and errors are indicated. In case of strong differences in flow characteristics it is possible to set a type specific calibration. All relevant data may be transmitted over the available interfaces.

Technical specifications

Supply voltage	88...264V AC (47...63Hz), alternative: + 24 V DC
Current consumpt.	1A
Type of protection	IP54
Dimensions	H:193 x B:345 x T:90 mm
Weight	~ 5 kg
Interfaces	<ul style="list-style-type: none"> • RS232/485 • Optional: Profibus-DP, Profinet-I/O, Modbus TCP, Modbus RTU, Ethernet/IP, ...
Keypad	Membrane keypad with 16 keys
Display	LCD-Display (128x64px)
Functions	<ul style="list-style-type: none"> • Display of actual capacity in t/h • Summation of total amount in kg • Limit value (min/max) relay output • Batch preselection via relay output
Type calibration	Max. 10 calibrations
Outputs	<ul style="list-style-type: none"> • Kg-pulse (24VDC), pulse value (in kg) and pulse length (in ms) adjustable • 0-10VDC / 4-20mA

Dimensions



Remarks

Due to our policy of continuous development, given specifications and data are subject to change.



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FLOW WEIGHER DC4

Component	Extern evaluation electronic
Series	FE128

Picture



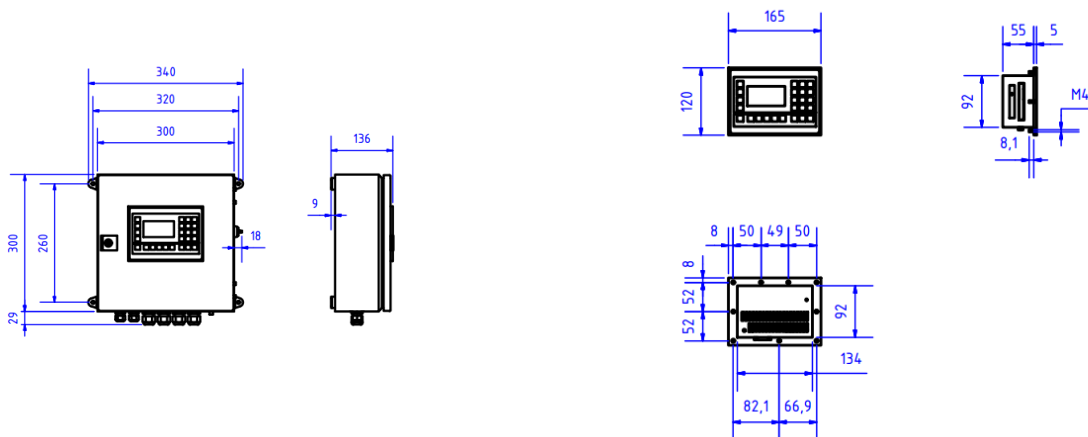
Description

The evaluation electronic processes the measuring values which are transferred from the weighing unit and continuously calculates the actual flow rate and the total amount. Limit values, batch preselection and errors are shown in the display. In case of strong differences in flow characteristics it is possible to set a type specific calibration. All relevant data may be transmitted over the available interfaces.

Technical specifications

Version	Panel mounting	Wall housing
Supply voltage	+ 24 V DC	88...264V AC (47...63Hz)
Current consumpt.	1A	
Type of protection	IP54 (front)	IP54
Dimensions	H:120 x B:165 x T:55 mm	H:300 x B:300 x T:140 mm
Weight	~ 0,5 kg	~ 6,5 kg
Interfaces	<ul style="list-style-type: none"> • RS232/485 • Optional: Profibus-DP, Profinet-I/O, Modbus TCP, Modbus RTU, Ethernet/IP 	
Keypad	Membrane keypad with 25 keys	
Display	LCD-Display (128x64px)	
Functions	<ul style="list-style-type: none"> • Display of actual capacity in t/h • Summation of total amount in kg • Limit value (min/max) relay output • Batch preselection via relay output 	
Graphical record	Time axis adjustable to 4h, 8h, 12h, 24h, 48h	
Type calibration	Max. 10 calibrations	
Outputs	<ul style="list-style-type: none"> • Kg-pulse (24VDC), pulse value (in kg) and pulse length (in ms) adjustable • 0-10VDC • Optional: 4-20mA 	

Dimensions



Remarks

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