REMBE® Kersting GmbH

CUSTOM TEK
INDUSTRIAL WEIGHING SOLUTIONS

REMBE C-LEVER® FLOW METER

for powders & bulk materials

Consulting. Engineering. Products. Service.

C-LEVER®

In-line mass flow solution for accurate metering of bulk materials

Applications

From pre-loading trucks to mixing and blending products: C-LEVER® is the ideal solution for weighing bulk materials. Due to its low profile, it not only requires very little space but is also **quick and cost-effective to install.**

Reliable results even when weighing materials with different bulk densities: C-LEVER® is the mass flow measurement solution for weighing free-flowing bulk materials that really works.

Mode of operation

The C-LEVER® principle is based on a unique **patented measurement technology.** This gravimetric solution – i.e. the measurement is performed in fall – permits extremely accurate, friction-compensated weighing of bulk goods. The system can achieve an **accuracy of up to 0.5 %*** even when the bulk goods have completely different properties. (min. material flow 110.2 lbs/hr (50 kg/hr), min. material density 18.73 lbs/ft³ (0.3 t/m³).

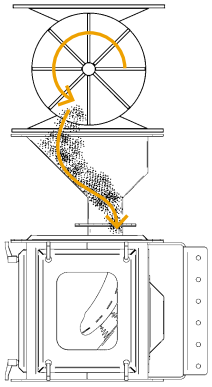
* with authorized product feed provided by the customer or through a REMBE® intake. All specified accuracies are based on the limit value for the full measurement range.

- Accurate loading and unloading for **reliable inventory control.**
- **Available in a wide variety of materials** of construction-suitable for use with highly abrasive products.
- **Simple compressed air cleaning** to remove materials which stick lightly to surfaces.
- **Low maintenance:** no moving parts means virtually no wear and tear.
- **High accuracy** even with variable conveyor outputs (e. g. screw conveyor) and pulsating product flows (e. g. rotary valve).
- **Minimal space requirements:** compact design
- **Suitable for use even at high temperatures of up to 320 °F (160 °C),** e. g. in the plastics industry when removing hot ash from power plants or for monitoring chemical dosing processes.
- **Can also be used in potentially explosive areas.**
- **Custom designed intake funnels and outlet adapters** for various pipes or irregular angles.

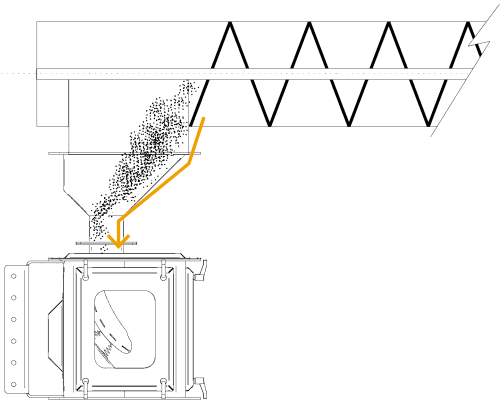
EVA HE – Mass flow rate controller for dynamic measurements

EVA HE is an evaluation unit for reliable process measurements with C-LEVER®. It offers adjustable inputs and outputs, counter contacts and industry standard RS232, Ethernet and USB ports as well as PROFIBUS DP (optional) for secure system integration via standard interfaces. Ideally, the measurements should be calibrated with reference weights in order to save resources.

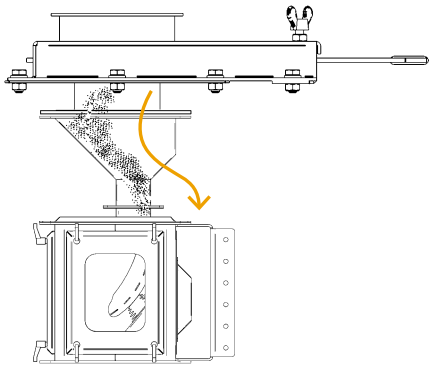
- **Intuitive touch display operation.**
- **Standard communication protocols for flexible integration of processes into existing PLC systems**
- **Ethernet/PROFIBUS options available**



C-LEVER® positioned after a rotary valve: measures pulsating product flows with high degree of accuracy.



C-LEVER® positioned after a screw conveyor: The REMBE® intake guarantees a high degree of accuracy even with variable conveyor outputs.



C-LEVER® after a slide at the outlet of a silo

Solutions for sticky or abrasive materials and sanitary applications.

Measuring slides and intake funnels with wear-resistant coating should always be used in connection with barley, corn, soybeans, wheat and other substances with similar hardness or minerals with high tensile crystalline structures. Abrasive materials are best monitored at low speed.

Slide options	Applications
Stainless Steel electro polished	Powder material
HARDOX 400	Semi-abrasive products such as grain, cement
Ceramic Coated	Abrasive products such as corn, soy, sunflower
Polyurethane	Sticky materials such as coffee beans, cocoa beans

- **Food industry**
- **Wood processing and recycling industry**
- **Pharmaceutical industry**

Stainless steel version for use in demanding sanitary applications (e. g. in the food processing industry).

REMBE® intake funnels are adapted to individual customer requirements.

Technical data

Material (standard version)	Housing: mild steel, powder-coated with RAL 1028
	Housing (optional): stainless steel 1.4301 or 1.4401 or on request
	Measurement slide Stainless steel
	Measurement slide also available in a range of anti-wear coatings (optional)
Accuracy	±0.5 to 2 %
Operating temperature	-49° to 167 °F (–45° to 75 °C), optional high temperature version available for up to 320 °F (160 °C)
Output signal	0 to 20 mV
Supply voltage	5 to 12 VDC

Type	Min. flow rate ft³/h [m³/h]	Max. flow rate ft³/h [m³/h]	Max. particle size in [mm]	Ground size L × W in [mm]	Height incl. intake funnel in [mm]	Weight incl. intake lbs [kg]
C-LEVER® mini	11 [0.3]	35 [1]	.3 [8]	6.3 × 6.8 [160 × 175]	12.52 [318]	11 [5]
C-LEVER® 6	35 [1]	212 [6]	1 [25]	11 × 11 [280 × 280]	19.80 [503]	28.6 [13]
C-LEVER® 12	177 [5]	424 [12]	1.2 [30]	12.6 × 13.8 [320 × 350]	24.61 [625]	44.1 [20]
C-LEVER® 24	318 [9]	848 [24]	1.2 [30]	13.8 × 17.7 [350 × 450]	24.61 [625]	66.1 [30]
C-LEVER® 50	706 [20]	1,766 [50]	1.6 [40]	13.8 × 29.5 [350 × 750]	24.61 [625]	110.2 [50]
C-LEVER® 100	1,413 [40]	3,531 [100]	2.0 [50]	20.3 × 20.3 [515 × 515]	35.43 [900]	154.3 [70]
C-LEVER® 200	2,825 [80]	7,063 [200]	2.0 [50]	20.3 × 30.5 [515 × 775]	35.43 [900]	165.3 [75]
C-LEVER® 400	5,650 [160]	14,126 [400]	2.0 [50]	26.4 × 26.4 [670 × 670]	47.64 [1,210]	187.4 [85]
C-LEVER® 600	8,829 [250]	22,189 [600]	2.4 [60]	26.4 × 34.7 [670 × 880]	47.64 [1,210]	209.4 [95]

Measurable density: .02 to .16 lbs/ft³ [0.3 to 2.5 kg/m³]

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