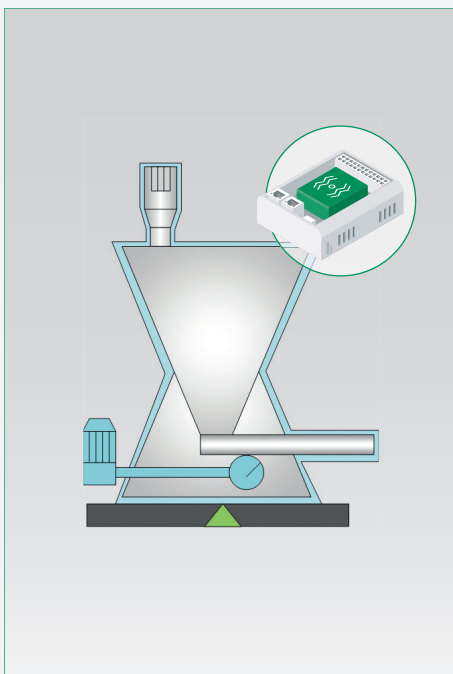
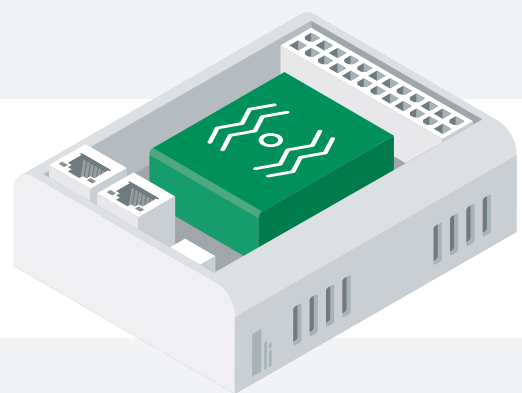


The DE-CONvibra control system is used to support the operation of loss-in-weight feeders in the gentle dosing of bulk materials by vibration chutes. Due to continuous performance determination and evaluation, automatic performance adjustment can be made at any time.

## DE-CONvibra

*Control system for loss in weight feeder*



Loss-in-weight feeder  
with vibration chute as discharging element

### Highlights

- Controls the setpoint-precise dosing according to the „Loss in Weight“ principle into a continuous process
- Supports the gravimetric and volumetric operation of differential weighers for gentle feeding of free-flowing granular bulk materials by vibrating chutes
- Highly accurate dosing due to adaptive control
- Vibration amplitude feedback for linear conveying characteristics over the entire performance range
- Optimized refill handling
- Integrated control of a conveyor system (option)
- Automatic scale calibration
- Speed monitoring of the discharge unit (digital / analog)
- Continuous performance determination and analysis for automatic performance adjustment in start-up and shutdown mode
- Single and group operation

## Features

- Time-based throughput counters
- Control of additional components for product activation (screws, beaters) and dust prevention (filters, extractors)
- Digital filtering of the weight values ( detection digital / analog) for an exact calculation of the feeding capacity
- High-resolution weight recording via digital/analog load cells
- Direct connection of load cells (4/6-wire technology)
- Control of the electromagnetic vibratory drive serial/analog
- Internal alarm buffer
- Integrated web server for complete configuration and parameterization
- Can be used in the control cabinet or directly in the plant
- 4 digital inputs/ and outputs with a number of standard functions (enable, operating contact, external fault, refill process, alarm, etc.) assignable or available for free use

## Communication

- Numerous interface protocols OnBoard and selectable/ parameterizable via web server
- Data contents of interface can be adapted flexibly
- Greatest possible flexibility during project planning, since data contents are available on all interfaces

## Supported protocols

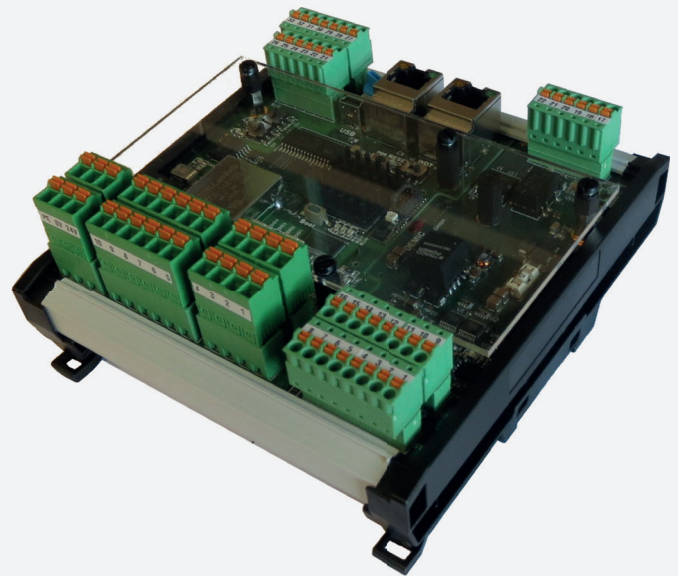
- Profinet
- Modbus TCP
- Ethernet IP
- EtherCAT
- Profibus
- RK512
- OPC UA
- Serial fieldbus



Not yet realized protocols will be integrated free of charge.

## Options

- Digital/Analog Extensions
- Operating Options
  - DE-COP 5 single (for single operation of a dosing unit)
  - DE-COP 5 multi (for operating up to 6 dosing units)
  - DE-COP 16 (for operating up to 16 dosing units)
  - Provis (Line software: up to 8 lines á 16 dosing units)
  - AIO-Control (Plant visualization = dosing units + other devices)



*Our control systems are extremely flexible and fit also to your dosing technology*

Would you like to learn more about our products? We look forward to advising you.



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