



Dosing
Weighing
Control
Diagnostic

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Gravimetric control unit

Type "SUGRA04" 50Hz or 60Hz model



- All in one gravimetric control unit for screw or vibratory feeder
- Batch gravimetric control unit (loss or gain in weight)
- Advanced volumetric control unit with real feed rate indication
- High resolution load cell amplifier with fast and automated user friendly calibration
- Integrated power drive stage for DC motors or resonance vibratory feeders (with tachometric coil sensor)
- Power drive stage electronic over current protection
- All the Digital and Analog I/Os usually required in feeding environments are on board
- PLCs or PCs communication protocols and field bus supported
- Integrated power supply for 115 or 230 V networks

Short description

The Single unit is based on reliable and high performance technology which allows to meet the requirements of high precision feeding processes. It has been designed for powerful price performance ratio and for ease of use. The integrated LCD display with backlight, the keyboard and a guided menu allow full control and configuration for local operations or emergency. Operation mode includes continuous gravimetric feeding, batching or advanced volumetric feeding. Serial communication interface and several communication protocols allow to interface the unit to PLCs or PCs. Embedded drivers for ASCII PC, ASCII PLC, Simatic 3964R and Modbus RTU are available. Supports the integration as slave on Profibus - DP field bus.

Software applications

PC Advanced configuration software with unlimited recipe database included.
PC Control software (MMI) with production backup function available.
PC production History rebuilder software available

Integral gravimetric control unit

The Single unit can be used as high precision (all in) continuous gravimetric feeding unit, as gain or loss in weight batching or for advanced volumetric feeding with real rate indication.

Integrated digital load cell amplifier

The on board high resolution digital load cell amplifier allows easy, fast and user friendly calibrations. Filter optimization for 50 or 60 Hz electric networks. Multi step software selectable damper for harsh industrial environments. Four or six wires 2mV / V load cell sensors are supported. Up to 3 load cell sensors (350 Ohm).

Integrated power drive stage with over current protection

DC motors up to 1.5A and resonance vibratory feeders (only with inductive tachometric sensor) can be directly connected to the internal power drive stage without the need of an external driver.

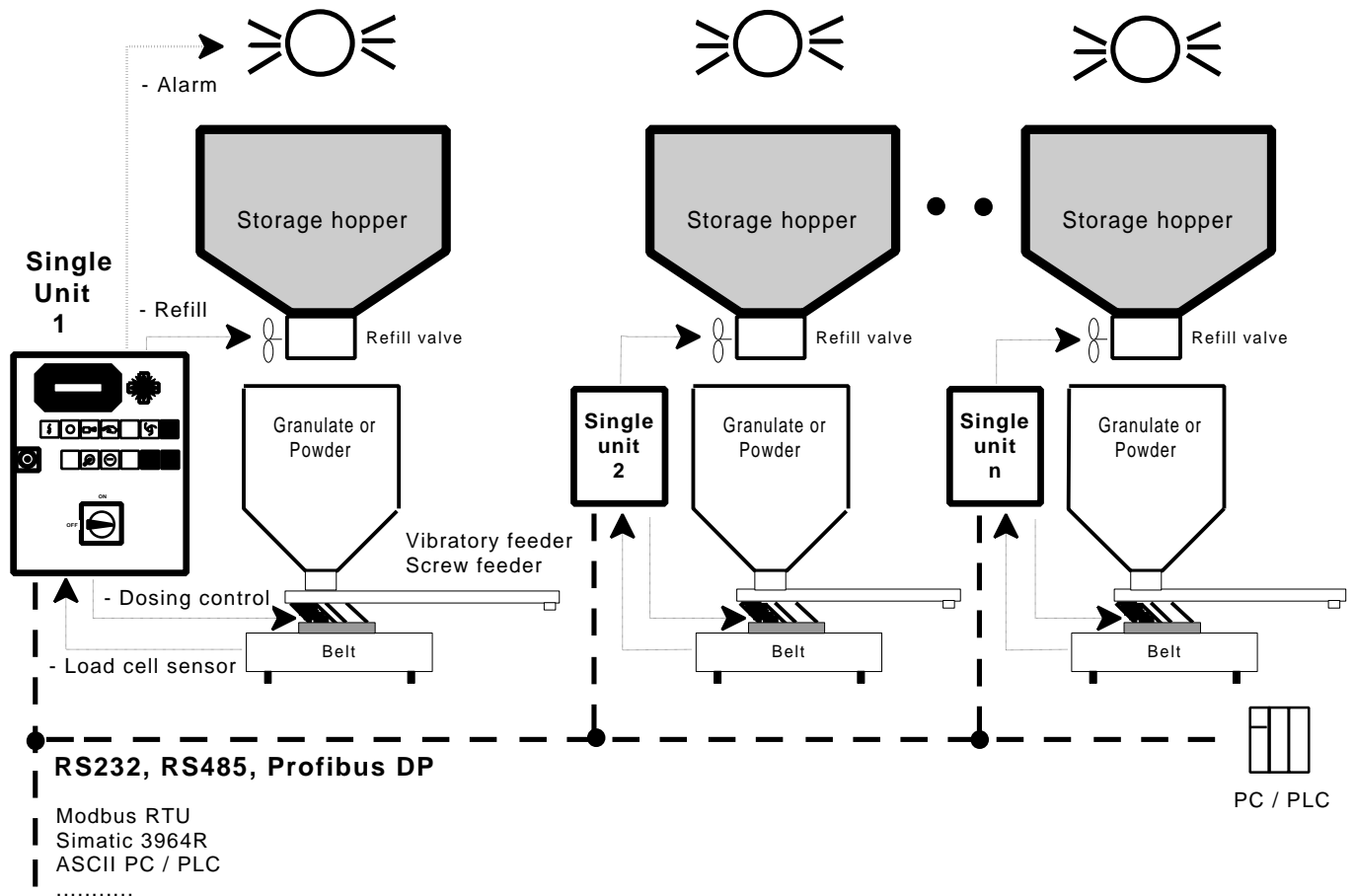
External drive units

An analog 0 to 10V or -10 V output is available to drive an external drive unit for AC motor or vibratory. Be aware of the limits of vibratory feeders without tachometric coil sensor.

Integrated power supply

The on board Hardware switch (selected before delivery at the factory) allows to use the same unit in 110 V or 230V 50/ 60 Hz networks without the need of external power supply units or adapters.

Application



Technical specification

Power : 115 or 230 [VAC] + / - 10 %

Model : : 50 or 60 [Hz] (Has to be specified at the order)

Load cell sensor : 2 [mV / V]

Number of LC sensors : Up to 3 load cell sensors (350 Ohm) can be connected in parallel.
More if 1000 Ohm load cells are used.

Authorized Agency :