



Dosing
Weighing
Control
Diagnostic

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Multifeeder gravimetric control unit Type "FWSMOD01"



- Gravimetric control unit for up to 8 screw, vibratory, pump or weighbelt feeders. (Mixed mode supported).
- Batch gravimetric control unit (loss or gain in weight)
- Advanced volumetric control unit with real feed rate indication
- Easy integration with high resolution load cell amplifier FCAMOD01 for fast and automated user friendly calibration
- Easy integration with the multichannel digital power drive stage POWMOD01. 0..10V or 0..-10V analog outputs for other motor or vibratory drive units are also available.
- All the Digital and Analog I/Os usually required in feeding environments are on board and allow great flexibility
- PLCs / PCs communication protocols and field bus supported
- Ethernet / Internet, Web enabled (optional MLNMOD02 module)
- Integrated power supply for 115 or 230 V networks

Short description

The Multiline module is based on reliable and high performance technology which allows to meet the requirements of multifeeder high precision feeding processes. Up to eight feeders can be completely controlled by the Multiline FWSMOD01 in cooperation with the multichannel FCAMOD01 amplifier and the multichannel POWMOD01 power drive stage. It has been designed for great price performance ratio and for ease of use. The modular system allows to reach an extremely good price per feeder ratio for multifeeders applications. It offers exceptional reliability, precision and flexibility which also results from many years of customers feedback. If you need a new feeder the system can be easily upgraded. The integrated LCD display with backlight and the keyboard 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. Allows fast production changes.
PC Control software (MMI up to 64 feeders) with production backup function available. Ethernet, Internet, wireless LAN are supported.
PC production History rebuilder software available. Allows troubleshooting of the feeding process.

Integral gravimetric control unit

The Multiline can be used as multifeeders (also single feeder) high precision continuous gravimetric feeding unit, as gain or loss in weight batching unit or for advanced volumetric feeding unit with real rate.

Mixed mode is supported and allows operating as continuous, batching or volumetric feeding unit for each feeder independently. It can simultaneously control different types of feeders including vibratory feeders, screw feeders, pump feeders and weighbelt feeders for each of the eight channels.

FCAMOD01 digital load cell amplifier module

The integration with the optional multichannel high resolution digital load cell amplifier module FCAMOD01 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 4 load cell sensors (350 Ohm). Analog amplifier modules supported through the weight analog inputs.

POWMOD01 digital multichannel power drive stage for motors and vibratory feeders

Easy integration with the optional multichannel power drive stage POWMOD01.

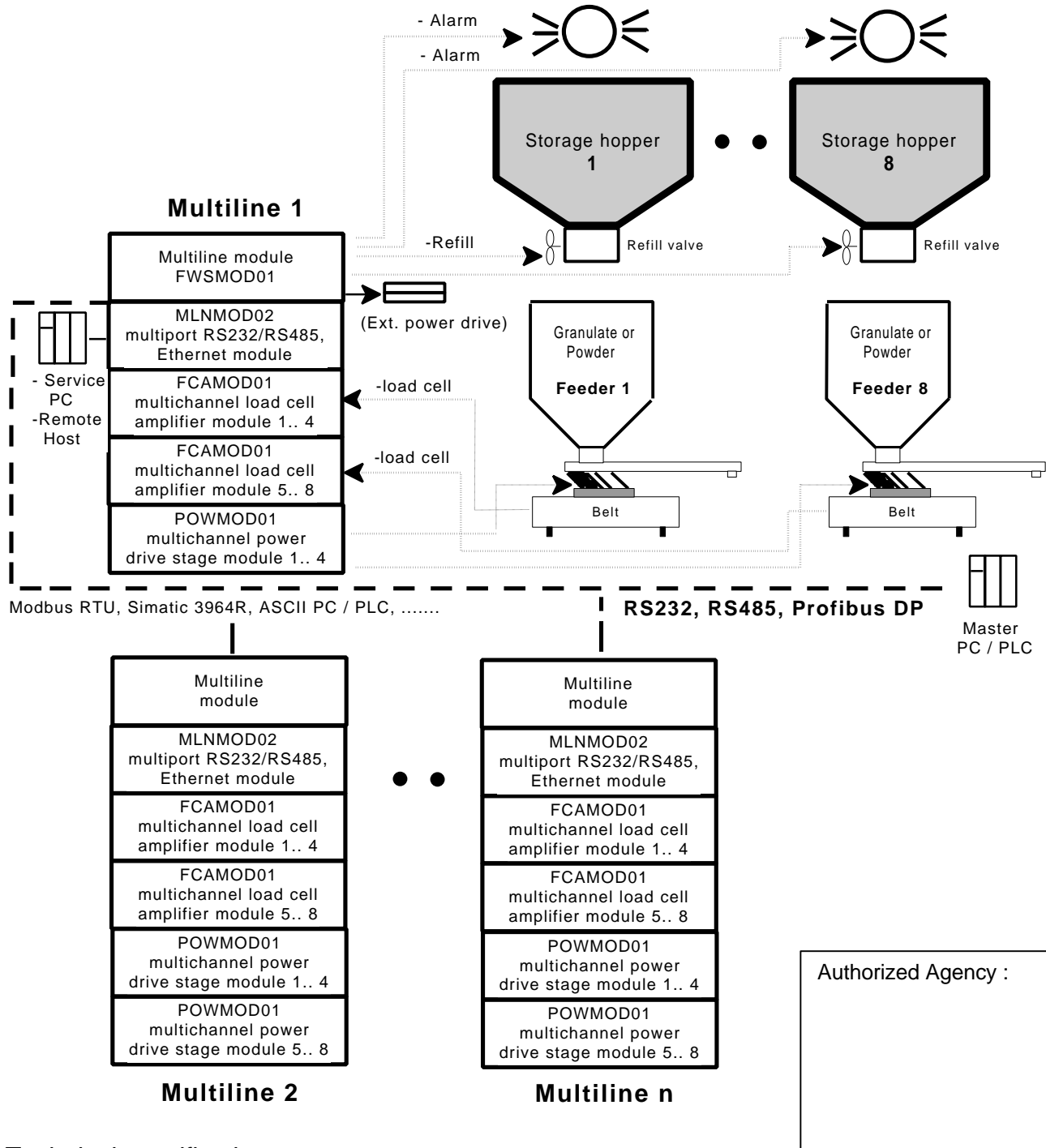
Integrated power supply

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.

Multiport RS232 / RS485, Ethernet module

The optional MLNMOD02 module adds three RS232 (one can be used as RS485) communication ports and an Ethernet port which Web enables the system. Simultaneous communication is allowed for an always running management PLC or PC, a service PC and for remote control through the integrated Ethernet port. The control software application (Man Machine Interface) can also be used from remote Ethernet Networks or Internet and supports the Wireless LAN technology. An embedded webserver allows to access and control the system from any remote host with standard webbrowser which is part of any operating system.

Application



Technical specification

Power : 115 or 230 [VAC] + / - 10 %
 Local LCD display : 4 lines x 20 characters with backlight
 Local keyboard : 4 scroll arrows and one confirmation button