



Dosing
Weighing
Control
Diagnostic

Algo GmbH electronic systems
via Pastura 14
CH-6983 Magliaso (Lugano)
Internet:
Email:

Tel. +41 091 / 6065269
Fax. +41 091 / 6065279
<http://www.algosystems.ch>
algo@ticino.com

Multichannel load cell amplifier

Type "FCAMOD01" 50 or 60Hz model



- High resolution four channels digital load cell amplifier
- For dynamic and static weighing applications
- Up to four load cell sensors (350 Ohm) for each channel
- Designed for 2mV / V load cell sensors
- Easy integration with the "Multiline" multifeeder control unit
- Internal CAN BUS for fast and optimized communication with the Multiline control unit. Hexadecimal switch for CAN BUS address
- Built in dosing process emulator for configurable weight discharge emulation
- Local LCD with backlight and keyboard for stand alone applications or emergency.
- RS232 and up to four 0...10V optional analog outputs
- PLCs / PCs communication protocols and field bus supported
- Integrated power supply for 115 or 230 V networks

Short description

The four channels digital amplifier module FCAMOD01 is based on reliable and high performance technology which allows to meet the requirements of high precision weighing processes. It can operate as multichannel load cell sensors amplifier module for the Multiline control unit FWSMOD01. Only two units are required for up to eight platform scales. It has been designed for great price performance ratio and for ease of use. The modular system allows to reach an extremely good price pro channel ratio for gravimetric multifeeders applications. It offers exceptional reliability, precision and flexibility which also results from many years of customers feedback. The integrated LCD display with backlight and the keyboard allow full control and configuration for local operations or emergency. Configuration parameters allows to optimize the weighing process. DC or multifrequency AC load cell sensors excitation. Serial communication interface and several communication protocols allows 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.

Easy and fast calibration process

Calibration is fast, easy and almost completely automated. User friendly calibration function is part of any control software for Multiline or Single unit gravimetric controllers. Span calibration compensates for different wires lengths and connector junctions.

Dynamic or static weighing applications

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. Up to 4 load cell sensors (350 Ohm) for channel.

Multichannel load cell amplifier for Multiline gravimetric control unit

Two FCAMOD01 of 4 channels communicate with the Multiline (which is the master) via the internal CAN BUS.

RS232 interface

Just connect the load cell sensors, calibrate and read out the corresponding weight through the serial RS232 port.

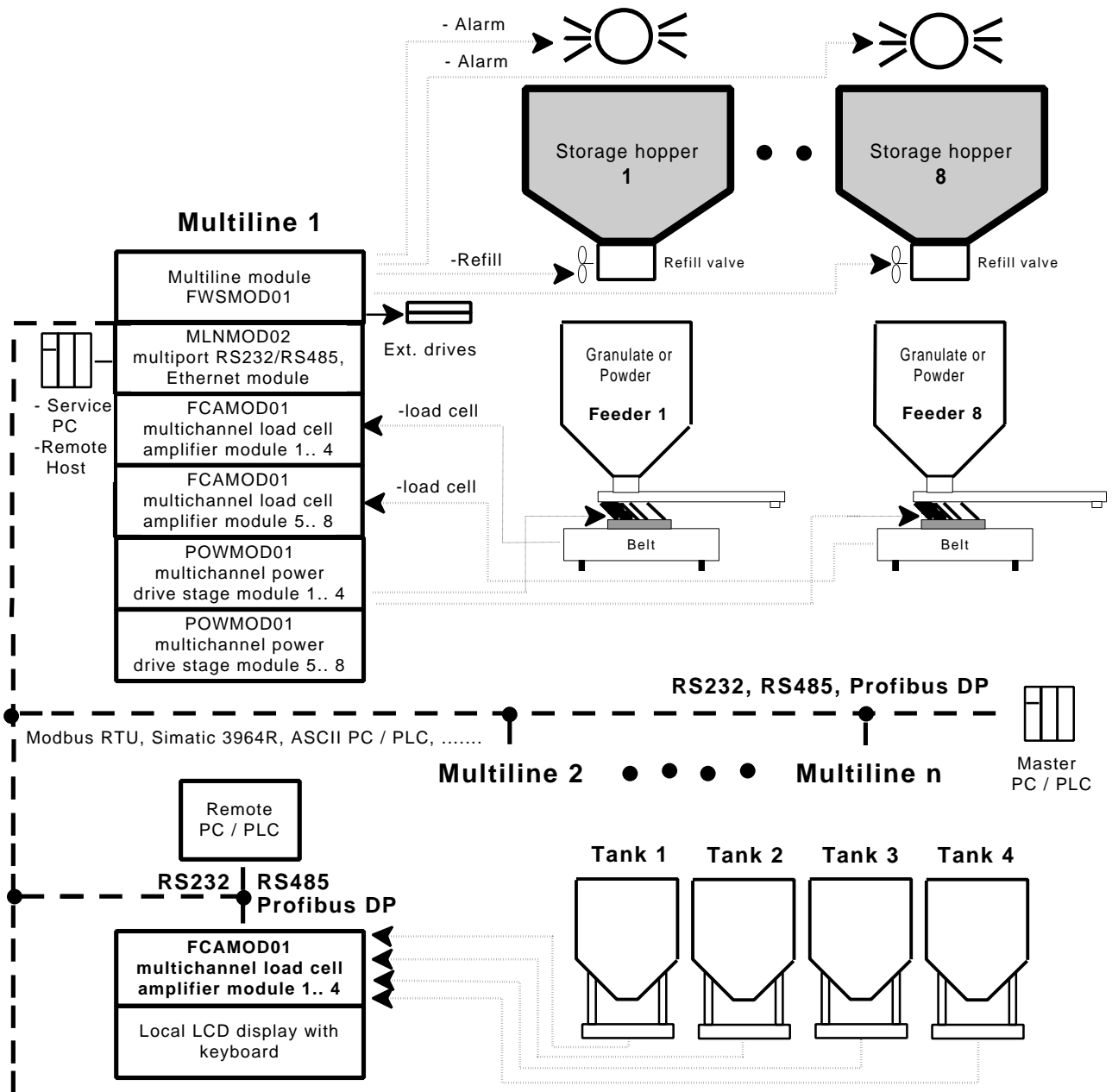
0...10V analog outputs

For each channel an optional 0..10V output is available to connect to analog devices.

Integrated power supply

The on board Hardware switch (selected before delivery at the factory) allows to use the same unit in 115 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 %
- Load cell sensors : 4 or 6 wires 2[mV/V]
- Local LCD display (optional) : 4 lines x 20 characters with backlight
- Local keyboard (optional) : 4 scroll arrows and one confirmation button

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