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Uniline gravimetric control cabinet with color touchpanel

Type "U/MMI/CS and U/MMI/SS" 50Hz or 60Hz model"

Type : U/MMI/CS

- All integrated gravimetric control for screw and vibratory feeders
- For continuous and batch (loss or gain in weight) feeding
- High resolution load cell amplifier with user friendly calibration
- Integrated power drive stage for DC motors or resonance vibratory feeders (with tachometric coil sensor)
- Electronic over current protection for the power drive stage
- Analog drive signal for frequency inverter in case of AC motors
- On board power supply for 115 or 230 VAC (Hardware Switch)
- Running, Refill and Alarm Relay outputs / Stop, Vol., Clear inputs
- Available with or without on board power drive stage
- 5.7" inches color touchpanel for user friendly operations
- Fast parameter setup screen for straightforward configuration
- Selectable mass unit : kg/h - kg/min - lb/h - lb/min
- Internal printed wiring schematics and plexiglas protector
- Available in carbon and stainless steel model

Summary

The Uniline controller (U/MMI) is a universal single feeder controller based on reliable high performance technology meeting the requirements of high precision feeding processes. Designed for powerful price to performance ratio and ease of use. Available as carbon steel or stainless steel model with or without on board power drive stage.

On board 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 environnements. Four or six wires 2mV / V load cell sensors are supported. Up to 3 load cell sensors (350 Ohm).
If more than 3 load cells have to be connected in parallel, the controller also supports 1000 Ohm load cells.

On board power drive stage with over current protection

DC motors up to 2A 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.

Inputs / outputs and communication

On board removable connectors grouped per function. Running, refill and alarm relay digital outputs.
Analog drive signal and Analog feed rate output are on board too.
Analog input guide value and digital inputs such as Stop,Clear alarm and Volumetric combined with all the the above listed I/Os allows to manage the controller from third party systems.
Optional communication box add communication ports allowing full remote control from PLCs.

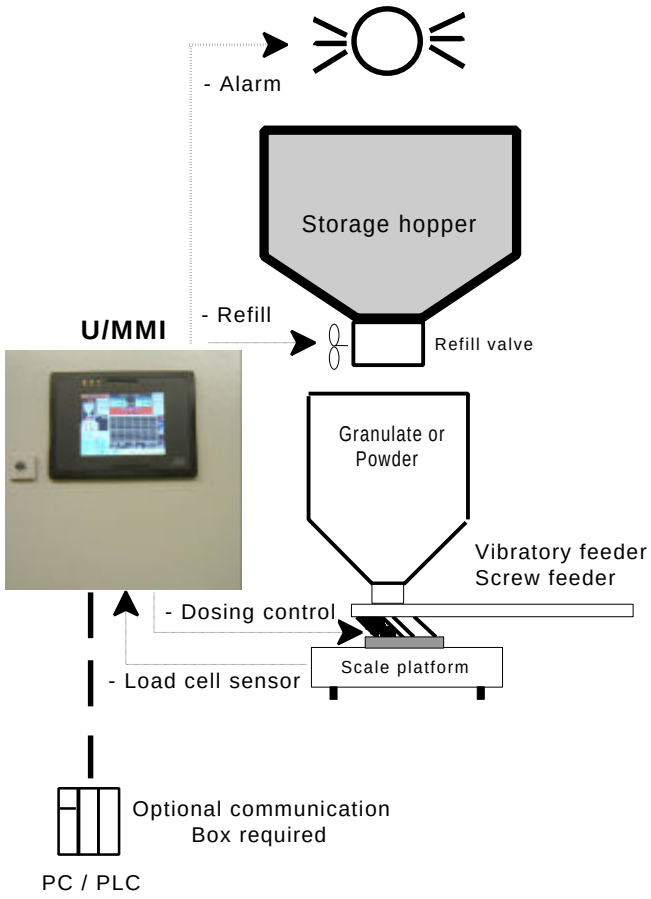
External drive units

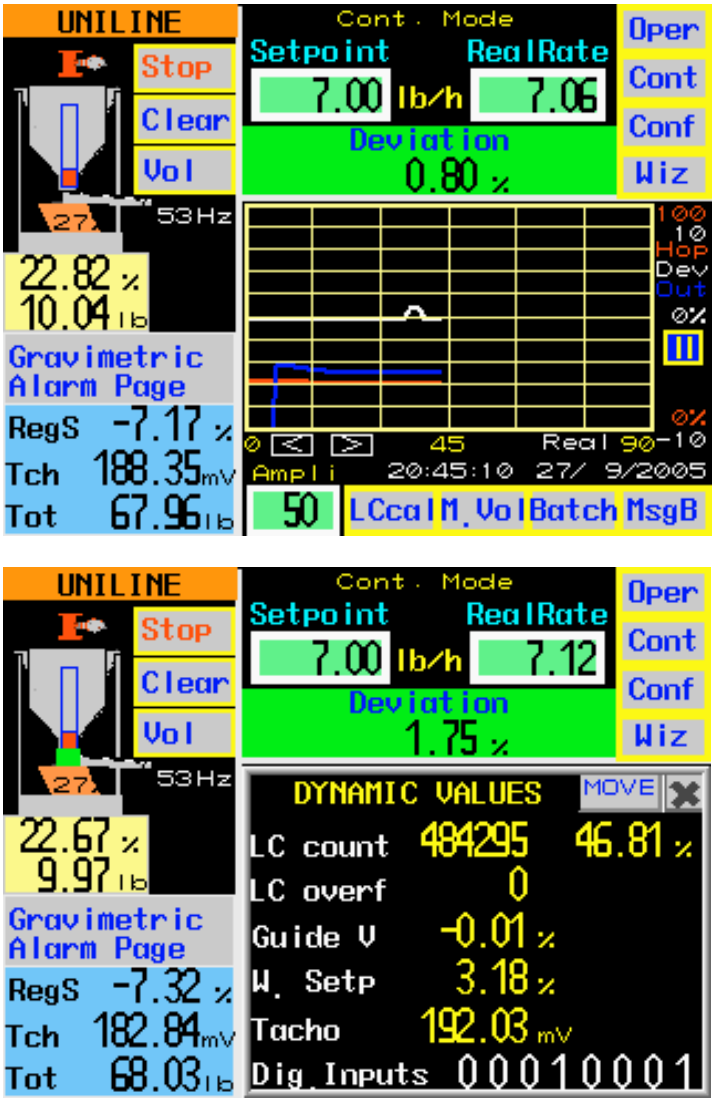
An analog 0 to 10V or -10 V output is available to drive an external drive unit (frequency inverter) for AC motors.

On board 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 example





Technical specification

Enclosure	: Carbon steel or stainless steel 380x380x210 mm
Power	: 120 or 230 [VAC]
Model :	: U/MMI/CS and U/MMI/SS 50 or 60 [Hz] (Has to be specified when ordered)
Load cell sensor	: 2 [mV / V] adviced precision class C3
Number of LC sensors	: Up to 3 load cell sensors (350 Ohm) can be connected in parallel. If more than 3 load cells have to be connected use 1000 Ohm load cells.
Load cell amplifier	:High resolution on board load cell amplifier with user friendly calibration
Power drive stage	: On board for vibratory feeders with tacho coil and DC motors up to 2A. (Available depending on the version)
Analog output	: Analog output to drive external frequency inverter for AC motors Analog feed rate output
Analog input	: Analog Guide value input
Relay digital outputs	: Refill, Running, Alarm
Digital inputs	: Stop, Volumetric, Clear alarm

Authorized Agency :