GUC-F UNIVERSAL CONTROLLER – TAKE CONTROL OF YOUR FEEDING PROCESS

Capability:
One control solution for dosing, feeding and weighing in all types of gravimetric and volumetric feeding applications, in continuous or batch production modes.

Savings:
Controls multiple feeders with one GUC-F Controller.

Flexibility:
You can add additional feeders to an existing GUC-F Controller at any time.

Connectivity:
Fully integrates with all state-of-the-art automation networks, supporting IoT functionality, predictive maintenance and access via web browser.

Full control:
All aspects of feeding processes are combined in one unit, including refilling, greatly simplifying and reducing the time of automation setup.

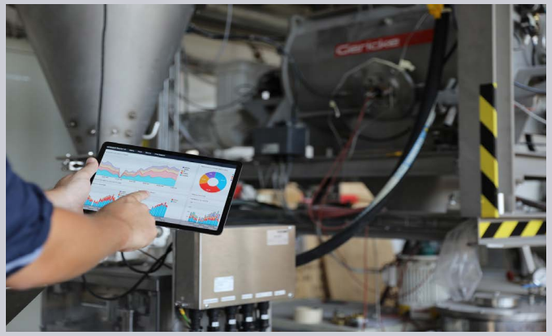
+ For all types of feeding

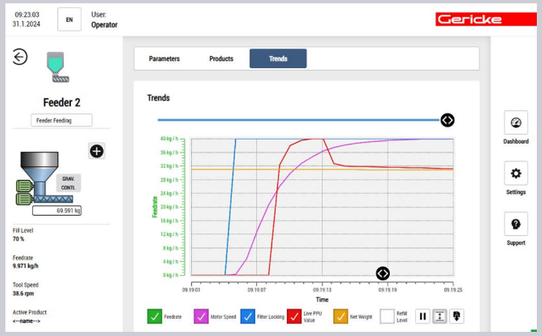
- Works with analog and digital load cells in any combination to support the right weighing accuracy and feeding range for your applications..
- Ultrafast processing and transmission of signals to tightly follow your process.
- Self-optimizing control algorithm (TrendTec) to achieve maximum accuracy even under demanding process conditions and during refill.

A PERFECT FIT FOR EVERY DOSING TASK!

User-friendly and future oriented

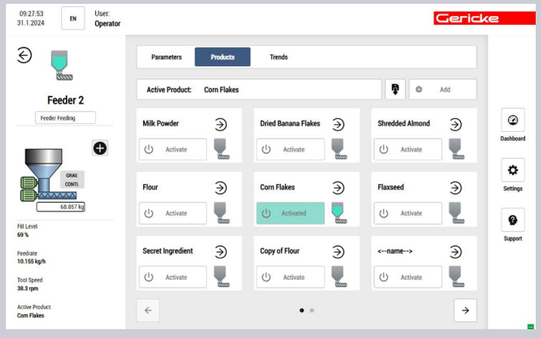
- Preconfigured for different feeders, modes and frequency inverters, but still adaptable to your needs
- Access via optional local HMI, tablet, superior automation system or remote
- Intuitive navigation on the user interface and multiple languages, with standard and expert mode
- Future-proof investment, as software can be updated (local or over the air OTA)
- Upgrades and extensions possible for additional functionality (additional feeders, HMI, etc.)
- Ready for remote access and maintenance - saves time and cost
- Statistics on process data, full support of OEE Overall Equipment Effectiveness





Data integrity & process safety

- Configurable user access system with individual access rights
- A log system records all manipulations and data entries. This facilitates the analysis of deviations in production
- Backups of configurations and recipes for easy duplication and restoring of GUC-F Controller keeps downtime to a minimum
- Advanced diagnostics and validation software
- Direct A/D conversion of weight signal at feeder increases signal quality
- Elimination of random signals and environmental disturbances

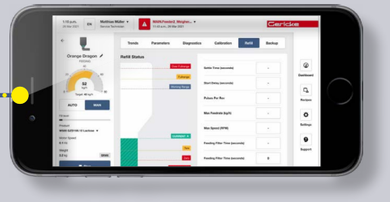


SYSTEM SETUP EXAMPLES

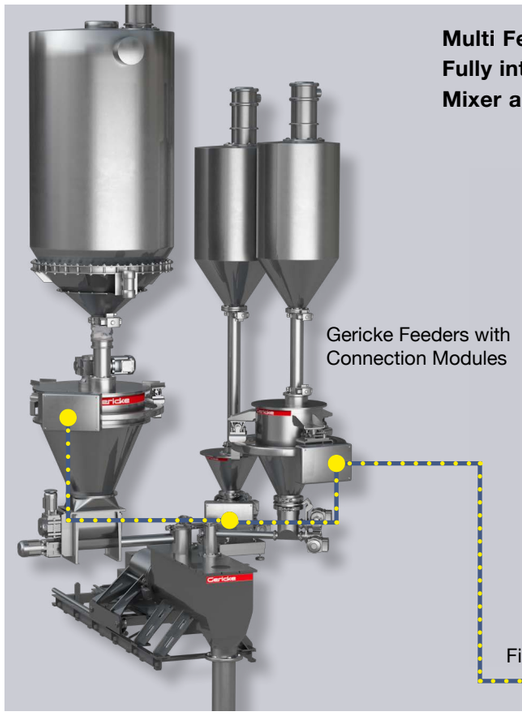
Single Feeder Example Setup — Stand-alone or integrated with supervisory control

Connection Module with local link to feeder, refilling device and frequency inverter

GUC-F Controller



Optional display or web browser



Multi Feeder Example Setup — Fully integrated with GERICKE GCM Continuous Mixer and automation environment

Gericke Feeders with Connection Modules

Control Cabinet with GUC-F Controller

Fieldbus Connection

GUC-F SYSTEM COMPONENTS

GUC-F IPC (for control cabinet installation on DIN rail)

- Optional fieldbus connection via Ethernet/IP or Profinet
- Frequency inverter connection via analog or bus signal
- High-resolution incremental encoder
- Embedded web browser for configuration, commissioning, maintenance and operation

GUC-F Connection Module

- Intelligent remote I/O in stainless steel box per feeder
- Supported load cells: Analog strain gauge, digital EMFR cells (24 bit, 32 bit internally)
- Simplified wiring with EtherCat network
- Local connections for refilling and other tasks

Touch display (optional)

- 7” (1024 x 600), 10” (1280 x 800) and 15.6” (1366 x 768)
- For panel mounting or as separate unit

I/O Cards and Modules

- AGP shut off valve control module for batch operations
- Communication interface - EtherNet/IP
- Communication interface - Profinet

Control cabinets

- On request

ATEX

- Executions available for various hazardous environments

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