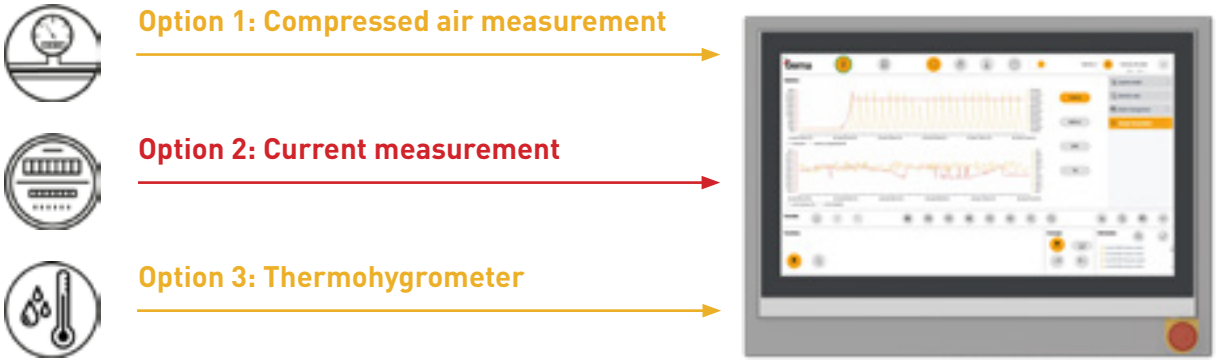
Energy Management (CM50)

Energy and environmental data at a glance

The MagicControl central control unit provides the foundation for efficient energy management. Optional monitoring of energy and compressed air consumption enables continuous tracking of resource usage, helping operators identify optimization potential and reduce operating costs.For enhanced process control, an optional thermohygrometer monitors temperature and humidity during production. Maintaining stable environmental conditions is essential for achieving consistent application quality and reliable coating results.All energy and environmental data is continuously recorded and visualized directly in MagicControl through clear charts and tables. This provides complete transparency of energy flows and valuable insights into the impact of individual production processes, supporting informed decisions and ongoing efficiency improvements.



Measurement technology options for energy data acquisition for visualization on MagicControl

Energy management

On the hardware side, energy and compressed air monitoring modules form the foundation of the system. Depending on the on-site conditions and number of feed measuring points, these are integrated into the overall system already parameterized and communicate via bus system to the central control unit. All recorded data is displayed centrally on the MagicControl dashboard and includes the added values of all measuring points and show the present consumption value, the course over time and total consumption.

Environmental conditions

The measuring module, which is integrated in the control cabinet of the system and fully parameterized, is connected to the Magic Control unit via a bus system. The visualization shows the current temperature and humidity as well as their trend over time.





1 Total consumption values of the selected day
2 Consumption values in real time
3 Interactitve selection of the month or year; swipe left/right and up/down
4 Interactive navigation to select a specific time period
5 Selection of the individual category for the graphic displays
6 Graphical display of the marked consumption data
7 Course of the real-time values

Main features:
- Each measuring module can be individually integrated into the system
- Clear, summarized energy and ambient values at a glance
- Easy to use interface through self-explanatory navigation
- Display of data in real time as well as total values
- Energy measurement: Data transfer via Ethernet
- Measurement of compressed air consumption: Signal transmission
- Temperature/humidity: Data transfer via Ethernet
- Data storage for more than ten years in the past

User benefits:
- Basis for the energy management of the powder coating plant
- Identify energy efficiency
- Recognizing savings potentials
- Integration of the measured data into the central control unit MagicControl
- Clear representation and trend indicator of consumption and ambient values
- Reading the raw data of the SD card from MagicControl

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