

3. Functions

Overview of functions

| Control variant: | DDA | | | DDC | | DDE | | |
|--|-----|----|----------------|----------------|---|----------------|---|---|
| | FCM | FC | AR | AR | A | PR | P | B |
| | | | | | | | | |
| | | | TM04 1636 2110 | TM04 1637 2110 | | TM04 8241 0312 | | |
| General | | | | | | | | |
| Digital Dosing: Internal stroke speed and frequency control | • | • | • | • | • | • | • | • |
| Mounting plate (basic/wall mounting) | • | • | • | • | • | • | • | • |
| Control panel, see page 9 | | | | | | | | |
| Control cube mountable in three positions: front, left, right | • | • | • | • | • | | | |
| Control panel position: front-fitted | | | | | | • | • | • |
| Transparent protective cover for control elements | • | • | • | • | • | | | |
| Capacity setting in millilitres, litres or US-gallons | • | • | • | • | • | | | |
| Graphical display with background light in four colours for status indication: white, green, yellow, red | • | • | • | • | • | | | |
| Plain-text menu in different languages | • | • | • | • | • | | | |
| Turn-and-push knob (click wheel) for easy navigation | • | • | • | • | • | | | |
| Capacity adjustment knob (0.1 - 100 %) | | | | • | • | • | • | • |
| Start/Stop key | • | • | • | • | • | | | |
| 100 % key (deaeration) | • | • | • | • | • | • | • | |
| Operation mode switch (manual/pulse) | | | | | | • | • | |
| Operation modes, see page 11 | | | | | | | | |
| Manual speed control | • | • | • | • | • | • | • | • |
| Pulse control in ml/pulse | • | • | • | • | • | | | |
| Pulse control (1:n) | | | | | | • | • | |
| Analog control 0/4-20 mA | • | • | • | • | • | | | |
| Batch control (pulse-based) | • | • | • | | | | | |
| Dosing timer cycle | • | • | • | | | | | |
| Dosing timer week | • | • | • | | | | | |
| Fieldbus control | • | • | • | | | | | |
| Functions, see page 13 | | | | | | | | |
| Auto deaeration also during pump standby | • | • | • | | | | | |
| FlowControl system with selective fault diagnosis | • | • | | | | | | |
| Pressure monitoring (min/max) | • | • | | | | | | |
| Flow measurement | • | | | | | | | |
| AutoFlowAdapt | • | | | | | | | |
| SlowMode (anti-cavitation) | • | • | • | • | • | | | |
| Calibration mode | • | • | • | • | • | | | |
| Scaling of analog input | • | • | • | | | | | |
| Service information display | • | • | • | • | • | | | |
| Relay setting: alarm, warning, stroke signal, pump dosing, pulse input* | • | • | • | • | • | | • | |
| Relay setting (additionally): timer cycle, timer week | • | • | • | | | | | |
| Inputs/outputs, see page 14 | | | | | | | | |
| Input for external stop | • | • | • | • | • | • | • | |
| Input for pulse control | • | • | • | • | • | • | • | |
| Input for analog 0/4-20 mA control | • | • | • | • | • | | | |
| Input for low-level signal | • | • | • | • | • | • | • | |
| Input for empty tank signal | • | • | • | • | • | • | • | |
| Output relay (2 relays) | • | • | • | • | • | • | | |
| Output analog 0/4-20 mA | • | • | • | | | | | |
| Input/Output for GENibus | • | • | • | | | | | |
| Input/Output for E-box (e.g. E-box 150 with Profibus DP) | • | • | • | | | | | |

* DDE-PR: relay 1: alarm; relay 2: low-level signal, stroke signal, pulse input