

# DOSING PUMPS DMX/DMH WITH FREQUENCY CONVERTER

## Profibus, Profinet and analog/digital signals

Analog and digital input/output module or Profibus



- 3 x DIN (digital input)
- 2 x DOUT (digital output)
- 2 x AIN (analog input)
- 1 x AOUT (analog out, opt.)

Fieldbus communication



Profibus, Profinet



Parameter Box



Handheld controller for easy and fast operation

Simple Setpoint Box



For direct local operation  
Can be installed permanently

Potentiometer

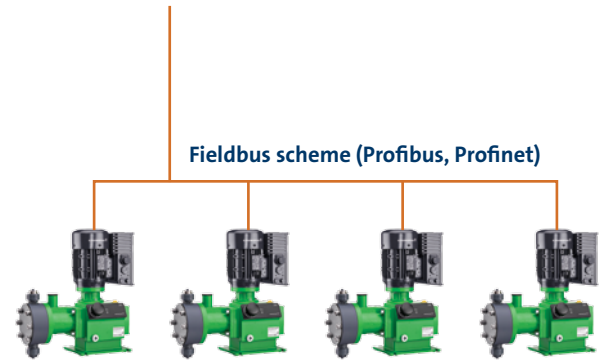


Adjustment of pump speed and flow

## Technical data

<b>Power range</b>	<ul style="list-style-type: none"> <li>1-phase or 3-phase, 200-240V, +/-10 %, 47-63 Hz, 0.25 - 0.55 kW</li> <li>1-phase, 110-120 V, +/-10 %, 47-63 Hz, 0.25 - 0.75 kW (on request)</li> <li>3-phase, 380-480 V, +10/-20 %, 47-63 Hz, 0.75 - 2.2 kW</li> <li>3-phase, 380-480 V, +10/-20 %, 47-63 Hz, 0.25 - 0.55 kW (on request)</li> </ul>
<b>Efficiency class</b>	• IE3 (for motors with power > 0.75kW)
<b>VFD* output frequency</b>	• 0-100 Hz
<b>Control</b>	<ul style="list-style-type: none"> <li>PI controller for excellent process regulation</li> <li>Linear U/f characteristic</li> </ul>
<b>Motor temperature monitoring</b>	• Temperature sensor (PTC)
<b>Standard interfaces</b>	<ul style="list-style-type: none"> <li>RS 485 (USS)</li> <li>RS 232 (startup and diagnostic)</li> </ul>
<b>Ambient temperature</b>	• 0 to +40 °C (continuous operation S1 acc. to EN 60034-1)
<b>Protection class</b>	<ul style="list-style-type: none"> <li>Motor: IP55/IP66</li> <li>VFD*: IP66 (powder-coated housing, coated PCB)</li> </ul>

## SCADA, PLC, DCS



Feature	Function	Benefit
Advanced communication interfaces for mechanical dosing pumps DMH and DMX <ul style="list-style-type: none"> <li>Analog in/out</li> <li>Digital in/out</li> <li>Profibus DP</li> <li>Profinet</li> </ul>	<ul style="list-style-type: none"> <li>Communication via a common system bus or fieldbus technology (optionally expandable)</li> <li>Field connection of sensor / actuator</li> </ul>	<ul style="list-style-type: none"> <li>Compatible with many SCADA systems</li> <li>Easy PLC integration</li> <li>Enhanced communication possibilities</li> <li>Wide application range</li> </ul>
Precise and easy setting	<ul style="list-style-type: none"> <li>A potentiometer is implemented to adjust pump speed and flow.</li> <li>Bus communication for better usability and interaction</li> </ul>	<ul style="list-style-type: none"> <li>Very simple and practical solution for dosing pumps adjustment during startup and operation</li> <li>Turndown ratio 1:100 (in combination with servomotor)</li> </ul>
Best EMC protection class C1 (according to EN 61000-6-2 and EN 61000-6-4)	Covers domestic areas and industrial applications (except for 115 V versions)	<ul style="list-style-type: none"> <li>Safe operation</li> <li>No disturbance of radio communication (mobile phone)</li> </ul>
Shielded motor cables are not required	Decentralised motor-mounted VFD*	<ul style="list-style-type: none"> <li>Reduced costs</li> <li>Optimal EMC protection</li> </ul>
Configuration and diagnostic tools	Uniform parameter structure and error messages <ul style="list-style-type: none"> <li>Via PC software</li> <li>Via parameter box or simple setpoint box</li> </ul>	<ul style="list-style-type: none"> <li>Convenient and trouble-free configuration</li> <li>Easy control</li> </ul>
Parameter box	<ul style="list-style-type: none"> <li>Startup configuration or local operation</li> <li>Operating languages: GB, DE, FR, ES, DK, PL, FI, NL, IT, CZ, SE, RU</li> </ul>	<ul style="list-style-type: none"> <li>The parameter box stores 5 data sets for different operation modes.</li> </ul>
Self-monitoring functions	<ul style="list-style-type: none"> <li>Overtemperature alarm</li> <li>Short-circuit monitoring</li> <li>Earth connection fault monitoring</li> <li>Overvoltage and undervoltage protection</li> <li>Overload protection</li> </ul>	<ul style="list-style-type: none"> <li>Process control</li> <li>Safe operation</li> </ul>

\* Variable Frequency Drive