



DOSING SYSTEM DS03

DP-D-004-000060



APPLICATION

The dosing system is specially designed for the control and monitoring of dosing processes in industrial plants as well as stand-alone devices.

DESCRIPTION

- ▶ **Automatic mode:**
The application-specific sequences are started and stopped by a higher-level PLC, the touch panel, digital I/O signals or even pushbuttons. The result of the dosing is reported or displayed accordingly
- ▶ **Semi-automatic operation:**
Sub-processes of the system can be started/stopped and monitored manually. This is also possible via "remote control" from a higher-level PLC
- ▶ **Manual operation:**
All actuators can be controlled and monitored manually via the touch display. Likewise, states of the sensors integrated in the system are displayed or forwarded to higher-level systems.
- ▶ **User account management:**
Users and access authorizations (can be) created, changed, copied or deleted. This data can be stored externally on a medium (e.g. USB stick) and can also be restored from there.

ADVANTAGES

- ▶ Two-part system architecture: control cabinet with remote operating panel
- ▶ Modern user interface with graphical visualization and touch operation on a 7" display
- ▶ All available motor variants are applicable (e.g. stepper motor, servo motor, DC and three-phase motor)
- ▶ Control can also be used as Profinet master
- ▶ Controller is fail-safe capable and can control or monitor assigned protected areas
- ▶ Secure communication via Profisafe optionally possible
- ▶ The standard communication interface to the higher-level controller is Profinet.
- ▶ Clear, understandable diagnostic messages are shown directly on the display and sent as unique message numbers to the higher-level PLC. The message history can be stored externally.

TECHNICAL DATA	
Weight	50 kg
Length x width x height	controller box approx. 650 x 400 x 250 mm panel approx. 300 x 180 x 60 mm
Supply voltages	
Frequency	50 Hz
Max. power consumption	1.5 kW in full configuration with all metering components
Voltage	230 V AC or 24 V DC, depending on version
Environmental conditions	
Temperature	10–40 °C
Humidity	max. 70 %



DOSING SYSTEM DS03 ACCESSORIES

PROFIBUS INTERFACE DS03

DP-D-004-000062

Profibus interface for remote control of the system via a Profibus slave connection (e.g. start, stop, dosing control ready, dosing control fault, greasing IO and greasing NIO).

PROFISAFE INTERFACE DS03

DP-D-004-000072

APPLICATION

Interface for the exchange of safe signals (e.g. emergency stop...).

CONTROL

Interface for exchange of all other signals remains Profinet (e.g. start, stop, dosing control ready, dosing control fault, IO and NIO dosing).

DIGITAL I/O INTERFACE FOR DS03

DP-D-004-000061

APPLICATION

For job selection and transfer of status signals by means of digital inlets and outlets on the DS03 dosing system.

CONTROL

By the higher-level control (e.g. start, stop, dosing system ready, dosing system fault, lubrication IO and lubrication NIO). The dosing parameters are stored on the DS in the respective jobs.



EXTERNAL INDUSTRIAL POWER SUPPLY

DP-D-004-000037
DP-D-004-000038
DP-D-004-000039
DP-D-004-000040
DP-D-004-000041

External industrial power supply incl. Rittal housing for power supply of the dosing system.

TECHNICAL DATA

Type	DP-D-004-000037 (without FSV application)	DP-D-004-000038 (with FSV application)	DP-D-004-000039 (without FSV application)	DP-D-004-0040 (with FSV application)
Primary	230 V AC / 50 Hz (L1; N; PE)	230 V AC / 50 Hz (L1; N; PE)	230 V AC / 50 Hz (L1; N; PE)	230 V AC / 50 Hz (L1; N; PE)
Secondary	24 V DC / 10 A	24 V DC / 10 A	24 V DC / 20 A	24 V DC / 20 A