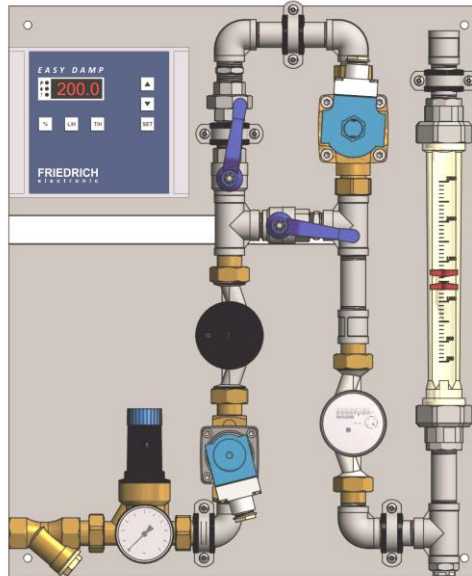




## LIQUID DOSING SYSTEM LDS

Automatic liquid regulation system with evaluation electronic



### Overview

- Exact dosage dependent on target l/h-value
- Experience in more than 1000 systems worldwide
- Compact and easy-to-use evaluation electronic with fieldbus connectivity

### Application

The *Automatic Liquid Dosing System LDS* is suited for the following applications:

- Continuous regulated flow system for water, oil and other fluids
- Exact humidification of conveyed bulk solids to attain desired moisture addition of the product

The *Automatic Liquid Dosing System LDS* continuously regulates the flow rate. The system is suited for many applications in which the fluid flow rate must be regulated automatically.

### Function

The LDS is a dosing system which automatically regulates a target flow. The system is connected to a supply pipe line and regulates the liquid by means of a flow counter and regulation valve.

The target flow can be entered via keypad or by connection of a fieldbus interface.

### Applied products

Water, oil, other liquids (specification required).



## Construction

The *Automatic Liquid Dosing System LDS* consists of two structural components, which are assembled on a mounting plate but may also be mounted independently: evaluation electronic and dosing unit.

## Sizes

The dosing unit is mounted on panel plate or inside anti-freeze box with thermo-regulated heating. The following sizes are available:

Type	Pipe diameter	Max. flow rate
WDA.025	¼"	300 l/h
WDA.050	½"	1000 l/h
WDA.075	¾"	2500 l/h
WDA.100	1"	5000 l/h

Size of flow regulation is supplied according to required maximum rating. The system is also available in stainless steel.

## Integration

The supply line is connected to the input fitting of the dosing unit, at the output fitting the regulated flow rate is directly available. Actual flow is indicated at the display of the evaluation electronic and accessible via interface. The initial open-close-valve may be released automatically by the evaluation electronic or externally.

The dosing unit can be installed at any desired location, but the supply line should provide sufficient pressure and flow performance. Pressure fluctuations are compensated automatically. The unit is available on panel board or inside anti-freeze box with thermo-regulated heating system. The dosing unit consists of pressure reducer, open-close-valve, flow counter, needle valve, control valve, mechanical total counter and rotameter.

## Evaluation electronic type FE790

The evaluation system is supplied in aluminum housing, powder-coated and with IP65 protection class.

- Inside mounted housing (230 V AC) on dosing plate
- Can also be installed independently from mounting plate
- Intuitive key-panel, display of measuring values and amounts
- Limit value monitoring system
- RS232/485-interface with Modbus-RTU protocol
- Other interfaces on demand (e.g. Profibus, Profinet, Ethernet/IP, ...)
- Analogue input 0-10V

*(Due to our policy of continuous development, given specifications and data are subject to change.)*