



# Electronic Dosing Systems Ltd

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Solutions For All Metering & Measurement Processes

## OK Series Metering Pumps

**ATEX ZONE 2 Compliant Environments**

**Constant Flow – Weekly Timer**

### Unrivalled Intelligent In Hazardous Environments

Redefining a new standard in hazardous environments technology where safety and precision is non-negotiable.

Ground-breaking microprocessor solenoid metering pump developed for use in potentially explosive atmospheres in ultra-resilient IP65 rated stainless steel housing, engineered for demanding industrial environments combines the highest safety standards coupled with cutting-edge digital technology to deliver reliable operational accuracy critical for process control applications in highly sensitive hazardous environments.

### Features

- » Flow rates: 0.4 - 110 l/Hr
- » Max backpressure: up to 20 bar
- » Power Supply: 100÷240 Vac - 50/60 Hz
- » Stroke rate: 120 - 300 strokes/minute
- » Pump Head: PVDF (Viton Seals)
- » Diaphragm: PTFE
- » External enclosure: PP reinforced with IP65-rated fibreglass
- » Manual priming bleed valve
- » Installation kit Includes:
  - PVDF Injection Fitting - PVDF Footfilter
  - PVC Hose – Polythene Delivery Hose



## Key Functions & Control Features

Built for harsh and demanding applications with integrated microprocessor digital system with manual flow and timed operating programs for simple fluid management processes, the power algorithm monitors system fluctuations to maintain performance by regulating the power to the pumps solenoid to stabilise chemical consumption reduce waste and deliver superior operational performance.

### Operating Modes

**Intuitive Flow Adjustment:** Manual 0÷100% frequency rate adjustment based on user-defined working parameters to maintain precise flow rate even under fluctuating operational conditions.

**Integrated Weekly Timer:** Schedule your dosing cycles to align perfectly with operational shift patterns and process demands throughout the week to optimize chemical efficiency in a wide range of applications.

**Remote Dosing Activation:** Utilise modern connectivity to initiate pump operations allows increased flexibility and control via a digital input signal to trigger start-stop commands.

**Low Level Protection:** Integrated input for a level sensor automatically stops the pump when the chemical storage tank reaches a critically low level protecting the dosing pump from damage.

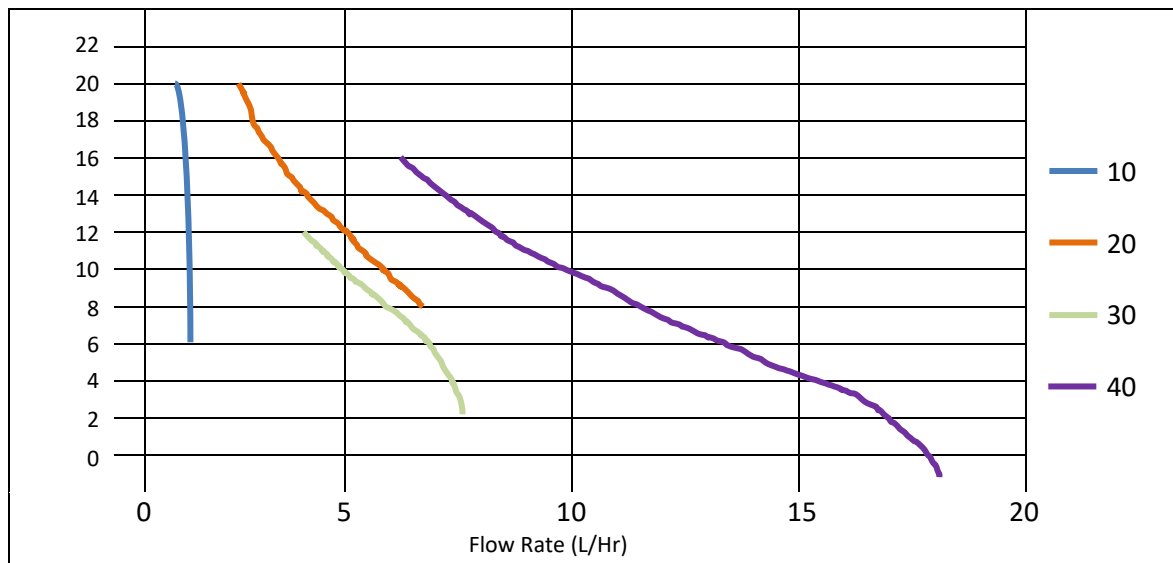
**Flow Sensor Monitoring:** Protects the integrity of the pump by monitoring the flow output by detecting blockages, air pockets or possible chemical line failure with automatic pump shutdown and alarm activation.

**Patented Power Algorithm:** Intelligent microprocessor-driven algorithm dynamically adapts the power to the pumps solenoid in real-time to the process operational conditions to maintain precise dosing and chemical efficiency.

Pump Models					
OK	Digital Interface: - Flow rate manually adjustable. Timed dosing through weekly programmable timer. Programmable timed relay by activating a dry contact input				
OG	Multifunction: - Constant Operation - Proportional flow rate according to external (4-20 mA) current signal - water meter: - (1:n or n:1). Timed dosing with a weekly programmable timer; Dosage in ppm; Dosage batch; Statistics; Password; - Input ON-OFF (remote switch)				
Keypad	Pump programming keypad has been specifically designed to meet the most stringent requirements for equipment operating in zone 2 areas. User-friendly interface and display allows for quick and easy programming of operational parameters without risk to the operator.				
	Pressure (Bar)	Flow Rate (l/hr)	Capacity (cc/stroke)	Frequency Stroke/min	Ø Hydraulic Connections IN / EXT.[mm]
	12	4	0.42	160	4x6
	10	3	0.52	160	4x6
	8	6	0.63	160	4x6
	2	8	0.83	160	4x6
	16	7	0.38	300	4x6
	10	10	0.55	300	4x6
	5	15	0.83	300	4x6
	1	18	1.00	300	4x6
	5	20	1.11	300	8x12
	4	32	1.78	300	8x12
	2	62	3.44	300	8x12
	0.1	110	6.11	300	8x12
	Power Supply				
	All Models	Stabilised Power Supply 110÷240 Vac 50/60Hz		Ambient Temperature: 40° Max	Humidity: 90° Max
	Pump Body		Liquid End		
	Stainless Steel	Stainless Steel (316L)			
	Installation Kit				
	PVDF: Standard	Optional Installation Kit PVDT-T			
	Pump Seals				
	FKM-B (Viton)	PTFE	EPDM (Ethylene Propylene Diene Monomer)		FFKM (Perfluoroelastomer)
	Note: - Guidance purposes only manufacturer reserves right to amend specifications				

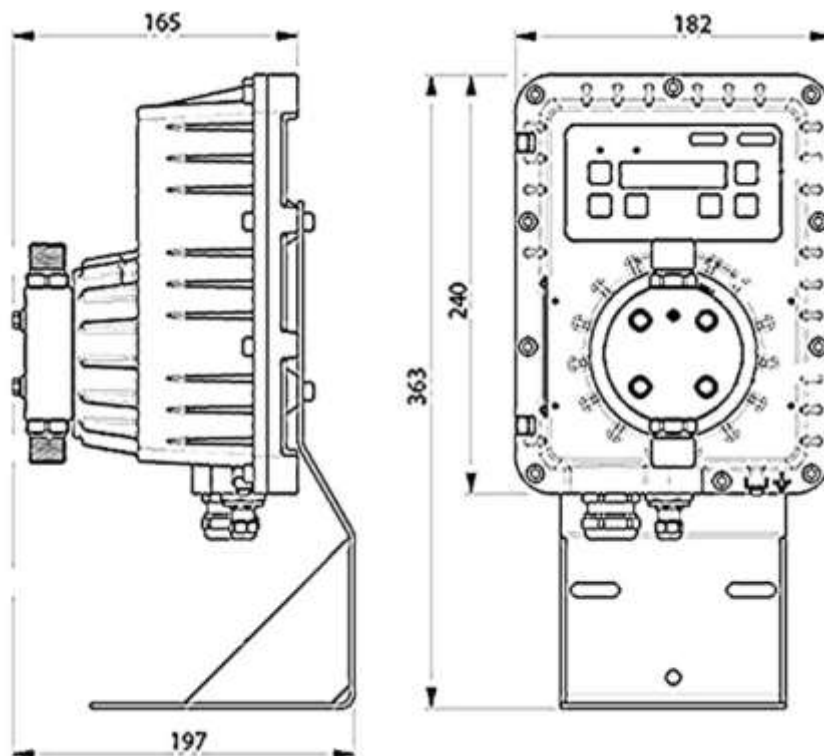
- These pumps are specifically designed and certified for operation in Zone 2 classified hazardous locations ensuring regulatory adherence and the highest level of operational safety for demanding industrial process applications.
- Benefits from reduced energy consumption courtesy of the patented stabilised multi-range power supply algorithm.

## OK Series Performance Curves



N.B. Flow rates are guild only and subject to manufacturer changes

## Dosing Pump Overall Dimensional Drawing



N.B. Wall and tank brackets mounted firmly rear of housing

Dosing heads and seals are manufactured from premium grade materials to meet today's constantly evolving demands providing years of service, chosen to guarantee perfect compatibility with most chemical agents used in domestic, commercial and industrial water treatment markets.

# O Series

## WALL-MOUNTED SOLENOID DOSING PUMPS

The multi-model O Series metering pumps delivers accurate consistent chemical dosing for a wide range of commercial & industrial applications including complex high-end processes. Built with premium-grade mechanical & electronic components the H series pumps are the solution of choice for discerning professional responsible for maintaining chemical efficiency. Commitment to continuous refinement of these systems meaning they always meet up-to-date legislation.



## APPLICATIONS

- Petrochemical Industry
- Mining & Quarrying
- Power generation
- Water Treatment
- Oil Processing
- Gas Industry
- Wastewater

## PUMP MODELS

- OK Model: - Manually Adjustable – Weekly Timer  
Remote Timed Dosing Via Relay Activation
- OG Model: - Multifunction Software Programs  
| 4-20mA | water meter | n:1 & 1:n | PPM |  
Timed: - Day-Weekly batch program

Remote Wi-Fi interface available  
With full programming authority

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