

# INVICTA

## ELECTROMAGNETIC DOSING PUMPS



Invicta is a simple yet reliable series of micro-processor based solenoid dosing pumps.

Ideal applications are: OEMs, Swimming Pools, Car Wash, Cooling Towers, RO Systems and many other applications.

**External plastic cover in PP with IP65 protection degree**  
protected against jets of water and aggressive environments

### Operation state LED:

- Flashing when operating
- Slow flashing when pump stops
- Fast flashing when low level alarm is activated

### Flow rate manual adjustment:

from 0 (operation stop) to 100% of max. flow rate

**Pump can be equipped with low level alarm connection upon request**

### Wall mounting:

- Directly on wall
- With fixing bracket

**Standard electric power 90-265 VAC (20-60 VAC on request)**

## PUMP CODING

MODEL	TYPE	POWER SUPPLY	TYPE OF HEAD	INSTALLATION KIT	OPTIONAL
KCL	633	N	VF	W	00

## TECHNICAL FEATURES

TYPE	PRESSURE (bar)	FLOW RATE (lt/h)	CONNECTIONS IN/OUT	STROKES / MIN.
632	7	0,6	4/6	100
632	7	2	4/6	100
633	5	5	4/6	180

## WETTED MATERIALS

TYPE OF HEAD	PUMP HEAD	BALL VALVES	SEALS AND VALVES	DIAPHRAGM
VF VE	PVC PVC	PYREX PIREX	FPM EPDM	PTFE PTFE

### Included Installation kit



Fixing bracket



Injection connector



Suction tubing

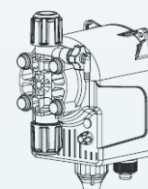
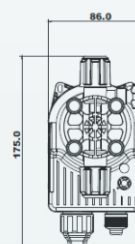
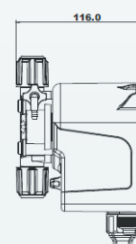


Delivery tubing



Foot filter

### Dimensional Drawings



# KOMPACT - analogic series

## ELECTROMAGNETIC DOSING PUMP



**compact** Series is a simple solenoid dosing pump, operating with a micro-processor to manage the dosing. Its external enclosure has an IP55, which guarantees a protection versus splashing water and aggressive environments. Kompact pump has a LED, which shows the state of the operation, according the dosing regulation, constant C or proportional P:



### Operation state LED

- Steady green LED switches off with every stroke that the pump runs.
- Flashing Green led with the potentiometer to 0.
- Steady red LED switches on with alarm.

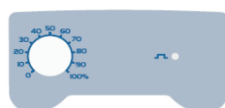
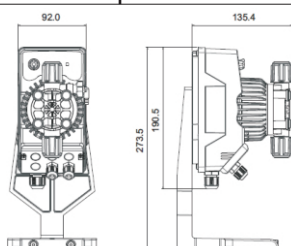
### In proportional mode

- Steady orange LED switches off with every stroke that the pump runs.
- Flashing orange LED with the potentiometer at 0.

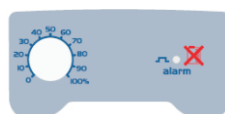
Specifications		
Type	200	
Pressure [bar]	8	10
Flow rate [l/h]	5	3
cc/stroke	0.52	0.31
Connections [mm]	4 /	
Stroke/min	160	

Pump head materials		
Type	P	
Body pump	PVC	
Balls	Ceramic	
Seat valve	FPM	EPDM
Diaphragm	PTFE	

### Dimensions

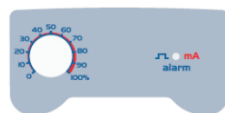


**AMS (constant dosage)** - Constant flow rate manually adjustable by control dial on the front panel, Power-ON led indicator.



**AML (constant dosage)** - Constant flow rate manually adjustable by control dial on the front panel, two flow rate range:

- 0÷20% with switch in P position,
  - 0÷100% with switch in C position,
- Power-ON led indicator and level control input.



**AMM (proportional dosage)** - Constant flow rate manually adjustable, proportional flow rate according to an external analogue signal (4÷20 mA), Power-ON led indicator and level control input.

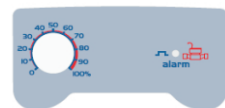
The two different modes are:

**n Constant** (switch in C position)

The pump constantly doses the rate selected with the potentiometer.

**n Proportional** (switch in P position)

The pump doses proportionally to the analogue input signal (4÷20 mA).



**AMC (proportional dosage)** - Constant flow rate manually adjustable, proportional flow rate according to a digital input signal (from water meter), Power-ON led indicator and level control input.

The two different modes are:

**n Constant** (switch in C position)

The pump constantly doses the rate selected with the potentiometer.

**n Proportional** (switch in P position)

The pump doses proportionally to the digital input signal (Division mode 4 : 1). Maximum input frequency: 80Hz.

### Features

#### Enclosure

Materials: PP  
Protection: IP65

#### Pump head materials

Pump body: PVC [with manual priming valve]  
Valves: PVC  
Balls: Ceramic  
Diaphragm: PTFE [the diaphragm has been tested over a period of 5 years]

#### Power supply

AMS model: 230 Vac 50 Hz  
Consumption 12 W  
AML / AMM / AMC Models: 100÷240 Vac 50/60 Hz  
[with reduced power consumption as the solenoid only draws the required power to activate the pump, based on the working conditions]  
consumption 14 W

#### Flow rate manual adjustment

from 0 (operation stop) to 100% of max. flow rate

#### Wall mounting

max. flow rate