

# VLW90M

level control, flow rates, pump automation

- 6 independent level measurements
- 2 open channel flow measurements
- 2 volume measurements
- 1 differential level measurement
- pump control (raising) up to 5 immersed pumps
- 2 analog outputs 4-20mA
- 5 fully configurable relays
- 2 open collector digital outputs
- 2 analog inputs 4-20mA
- 2 digital inputs (max. 24vDC 10mA)
- Datalogger via Pen Drive USB



VLW90M, a single unit suitable for different applications. Level measurements, difference between levels, open channel flow (hydraulic jump) and pump control. Different measurement functions directly settable via the keyboard. VLW90M can be connected to ultrasonic sensors and/or to 4-20mA level transmitters. VLW90M has been developed for the connection to 1 or 2 MODBUS sensors, but it can support up to 8 PTU, MTU, METER, MTU5 or KTU units if externally powered. A remarkable note is the data logger on removable pen-drive, which enables the total traceability of the measurements. It is particularly suitable for the analysis of the flow rate timing in open channel applications.

## TECHNICAL FEATURES

### Housing material

ABS

### Mechanical installation

Wall, pipe or DIN rail mounting

### Protection degree

IP66

### Keyboard

5 push buttons

### Display

320x240 matrix color LCD with backlight

### Electrical connection

Internal connectors

### Working temperature

-20 to +60°C

### Power supply

85-230vAC; 24vDC; 24vAC

### Power consumption

Max. 10W

### Analog output

n.2 configurable isolated 4-20mA

### Relay outputs

n.5 fully configurable relays (5A 250vAC)

### Digital outputs

n.2 open collector (max. 24vDC 50mA)

### Analog inputs

n.2 4-20mA

### Digital inputs

n.2 (max. 24vDC 10mA)

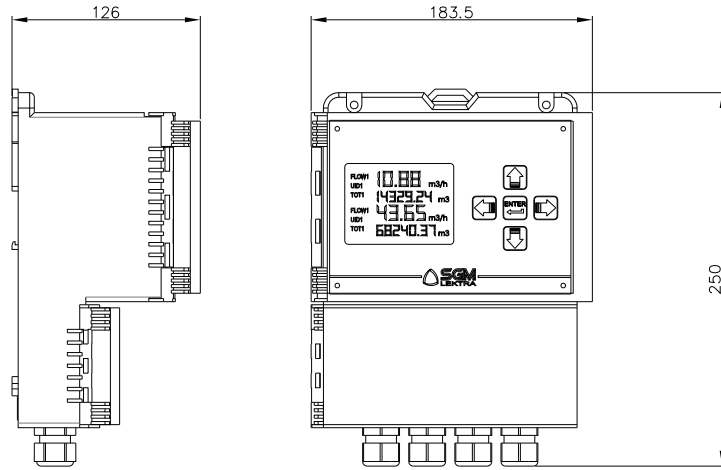
### Digital communication MODBUS RTU

### Datalogger

on Pen Drive USB; max.32GB (FAT32)

### Power supply for analog transmitters

24vDC; 200mA max



**VLW90M** Level, open channels flow and pumps control unit

Directly connectable to PTU5x, METER (4 wires), MTU5 and KTU5 ultrasonic sensors  
 Matrix 320 x 240 backlit color LCD display  
 USB port for pen drive connection (logger)  
 Wall or DIN rail mounting  
 5 calibrating push-buttons  
 IP66 mechanical protection; temperature range : -20 to +60°C

Version	
2	For connection up to Max. 8 PTU5x family sensors
3	Without brand
9	Special
Relay	
C	5 Relays with change over contact (SPDT)
Power supply	
1	85-265vAC 50-60Hz
4	24vDC/24vAC
Output	
B	n.2 opto isolated 4-20mA + n.2 opto isolated open collector
Field Bus	
1	MODBUS RTU
9	Special
Accessories	
A	None
U	8GB USB Pen Drive for datalogger