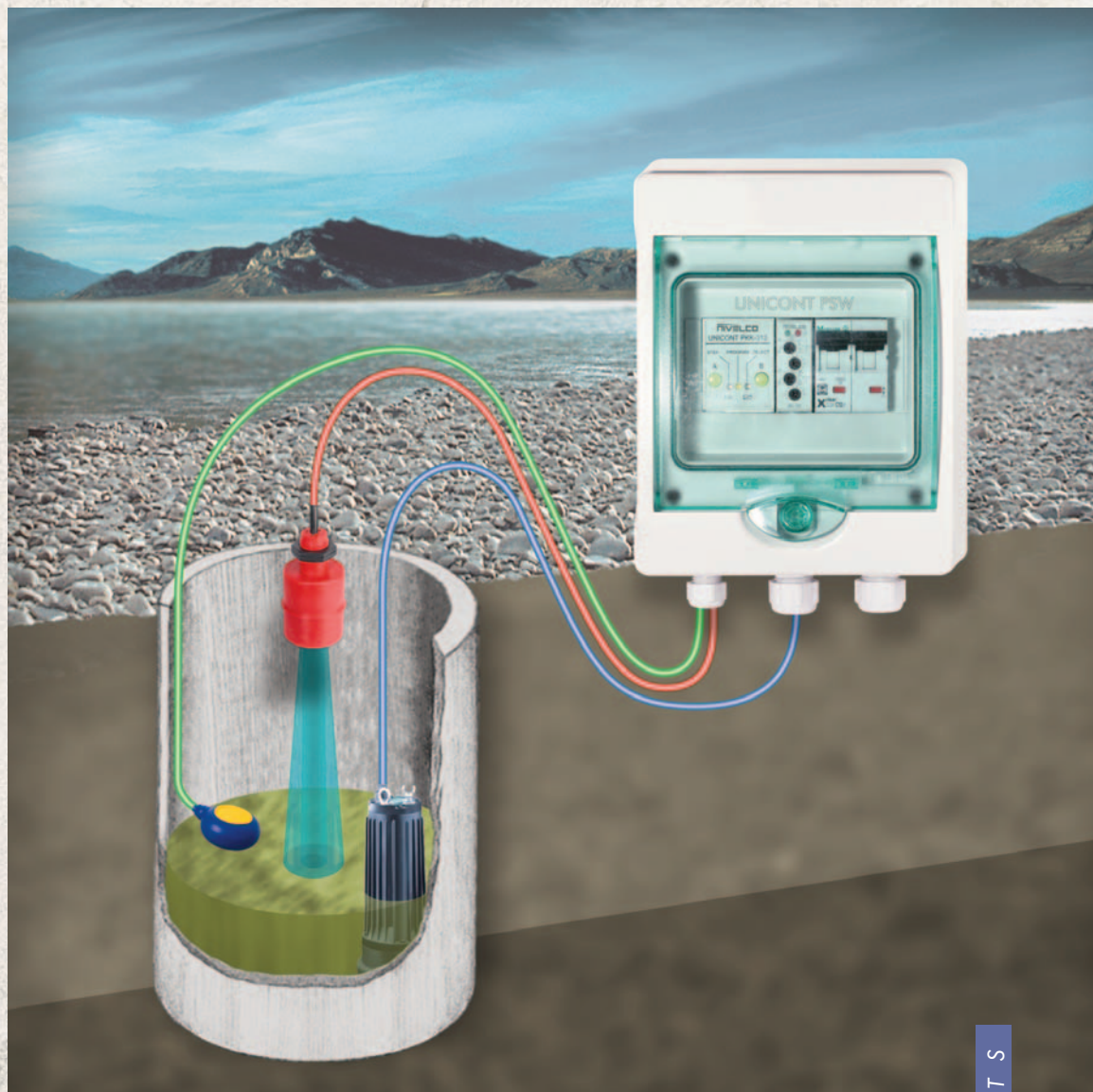


For sewage and drainage sumps

# UNICONT PSW

ULTRASONIC PUMP CONTROL SYSTEM



COMPONENTS



OUR PROFESSION IS YOUR LEVEL

## MAIN FEATURES APPLICATIONS TECHNICAL DATA

- Cost-saving
- Maintenance-free
- Fully automatic pump control
- Ultrasonic level measurement
- 0.3–5 m measurement range
- Programmable timer
- IP68 / IP65 protection
- Optional dry-run or overflow protection
- Domestic sewage shafts, wetwells
- Sumps
- Tanks, flood storage
- Drainage sumps, pools

### GENERAL DESCRIPTION

The low-cost **UNICONT PSW** pump control unit is designed for fully automatic level control of small domestic or communal sewage shafts, sumps or wetwells. An IP68 protected ultrasonic level transmitter performs continuous level measurement and delivers 4–20 mA level data to the **UNICONT PSW** unit featuring a user programmable controller.

This **UNICONT PKK-312-1** type current controlled switch featuring relay output controls directly the single phase pump at the selected low and high limit levels. A **NITIME JEL-121** type time relay controlled function featuring automatic cycling of the pump according to the rate of operation and break (for example 1-2 minutes daily). This function is useful in case of infrequent usage or low water consumption (for example in weekend houses).

The optional **NIVOFLOAT NLP** type float level switches may be used for additional dry-run or overflow protection if safety is a priority.

The system can be turned on or off by a single-pole Miniature Circuit Breaker or a Motor Protection Switch.

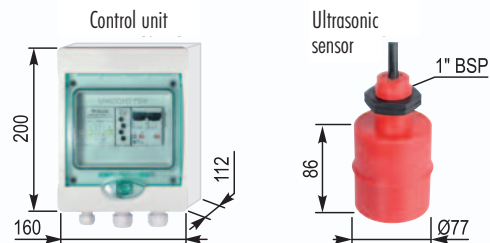
Type	UNICONT PSW-1□□-1	
Power supply	230 V AC ±10%	
Protection	Miniature Circuit Breaker	C 60N - 1P+N 6A/C
	Motor Protection Switch	Z-MS2P-10
Output	1-1 piece of NO relay, 250 V AC, 8A, AC1	
Operation modes	Automatic pump out control <sup>1</sup>	Site adjustable high level (Pump ON), and low level (Pump OFF)
	Timer	10 s – 100 days ON and OFF pump switching
	Float switch <sup>2</sup>	Overflow protection, fail-safe indication
Control unit	Electrical connection	4 pcs. plastic cable glands, terminal: max. 2.5 mm <sup>2</sup> wire cross section
	Electrical protection	Class I.
	Ingress protection	IP65
	Mass	~2 kg
Level transmitter	Range	0.3 – 5 m
	Operation principle	Ultrasonic
	Material	PP
	Process connection	1" BSP
Type: UTP-241-4-X14	Programming <sup>1</sup>	Programmed
	Cable <sup>3</sup>	3 m shielded, PVC insulation
	Power supply	24V DC
	Ingress protection	IP68

<sup>1</sup> Programmed by the manufacturer, can be user programmed

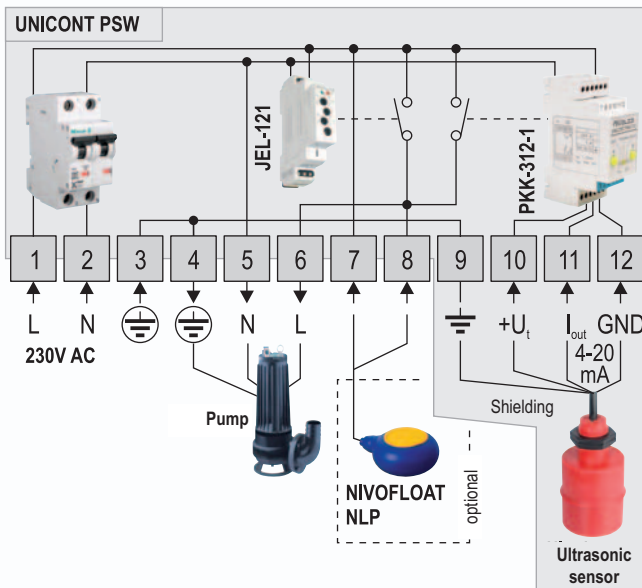
<sup>2</sup> Available to order separately

<sup>3</sup> Alternative cable length should be specified in the order

### DIMENSIONS



### CONTROL SYSTEM



### ORDER CODES

#### UNICONT ultrasonic pump control system

#### UNICONT PSW-1□□-1

Timer	Code	Protection	Code
With	0	None <sup>1</sup>	0
Without	1	Miniature Circuit Breaker	1
		Motor Protection Switch	2

<sup>1</sup> Proper electric protection is necessary

Standard cable length of the ultrasonic sensor: 3 m  
Different cable length is available in case of special orders (up to 30 m)!

#### Accessories

NIVOFLOAT NLP-105-1	Float switch with 5 m cable
NIVOFLOAT NLP-110-1	Float switch with 10 m cable
NIVOFLOAT NLP-120-1	Float switch with 20 m cable
NIVOFLOAT NMW-100	Counterweight for float switch