

# Ultrasonic Sensors

## Applications :

Simple solution for contactless level measurements. Reservoirs, sewage works, storm outlets, discharge channels are sites to which PARATRONIC ultrasonic sensors are perfectly suited. Option for servo-control of pumps by remote module. More than 5000 sites already equipped.

## Simple and effective :

Easy to install (suspended by the cable or fixed with their bracket), the PARATRONIC US can be easily configured using the USP console. Suitable for level or drawdown measurements, they have a measuring capacity of up to 10 metres with a reduced transmission cone and can be connected to standalone acquisition systems due to their very short warm-up time.

## Reliable and upgradeable :

Through their design (metal housing, epoxy paint, strengthened electronics), the PARATRONIC US range is intended for use in severe operating conditions and is covered by a 3-year warranty which includes lightning risks.

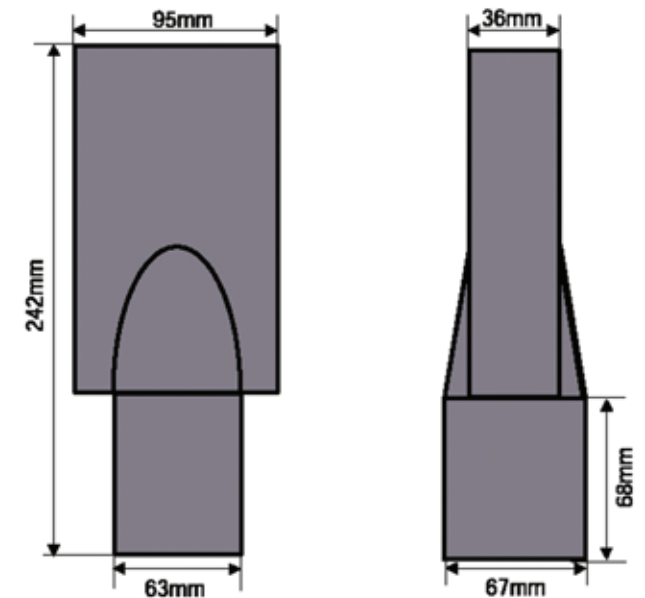
## Available :

- Large stock of all models.
- Constant technical availability to meet your requirements.



C104A-0319	US6	US10
Measuring range	Configurable up to 6 metres	Configurable up to 10 metres
Power supply	10 to 40 VDC	
Power	22 mA max	
Calibration and configuration	External programmer (Ref USP)	
Permissible line resistance	1350 Ω	
Output and connection	Signal 4-20 mA over 2 wires	
Measurement fault	22mA fault signal (absence of echo)	
Fault time-out	240 s (adjustable from 10 to 250 s)	
Blind area	30 cm	
Maximum permissible level variation speed	5 cm / s (adjustable from 1 to 50 cm/s)	
Transmission cone	+/- 6° at -3db	
Temperature compensation	YES	
Residual temperature drift	0.04 % /°C	
Resolution	1 mm	
Linearity	0.2 % of the full scale	
Warm-up time	3 s	
Operating temperature	-20°C/+60°C	
Storage temperature	-20°C/+60°C	
Lightening shock strength	Wave 8/20 1,2/50 : 2 kV	
Electromagnetic Compatibility	EN 61000-6-2, EN 61000-6-3	
Electrical safety	EN 60950-1	
Fast transients	Level 4	
Protection	IP 68	
Installation	Suspension by cable or plate mounting	
Cable (standard length)	5 metres - Others on request	10 metres - Others on request
Material	Cast aluminium - epoxy paint	
Dimensions	See detail	
Weight	1700 g + Cable	
Warranty	3 years including lightning risk (1)	

(1) It is essential to protect the loop with a PRO TAS30.



## Ultrasonic Sensors