

# MIDOMET ULTRASONIC

## Ultrasonic Distance/Level Sensors



MiDoMet Ultrasonic Level Sensor is a concise and smart level transmitter.

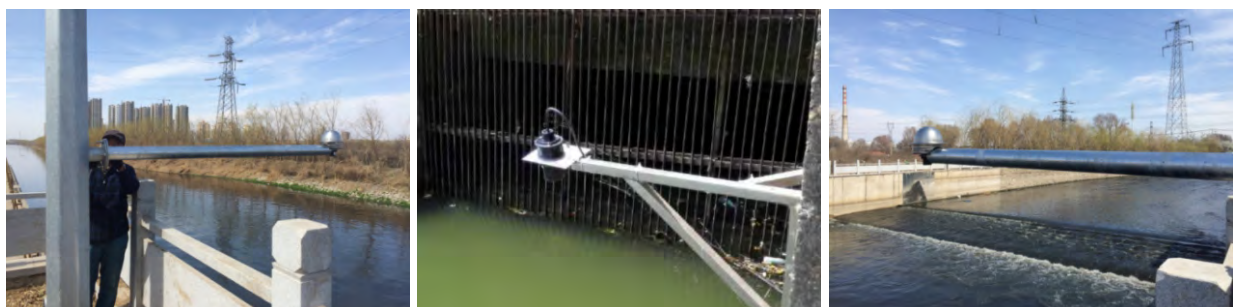
All gold-plated circuit boards, internal electromagnetic shielding and software digital filter are tested for (industrial) 48 hour under high and low temperature aging.

It promises higher and long-term reliability. Shell is made of solid texture and good NLEPF acoustic characteristics of synthetic material. The body is shape sophisticated aesthetics, waterproof, dustproof, and can adapt to the most of working conditions on site. A very quick and easy installation, maintenance can be realized.

### Features

- Level Range:  $\leq 15$  M (3 m, 5 m, 7 m, 10 m, 15 m)
- Output 4 ~ 20mA or 0-5 V
- Blind area: 500 ~ 800mm
- Power Supply: DC12V / 300mA
- Working Temperature:  $-20^{\circ} \sim +50^{\circ} \text{C}$
- Protection Class: IP68

### Uses Case

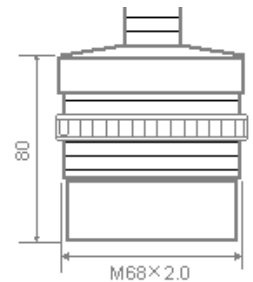
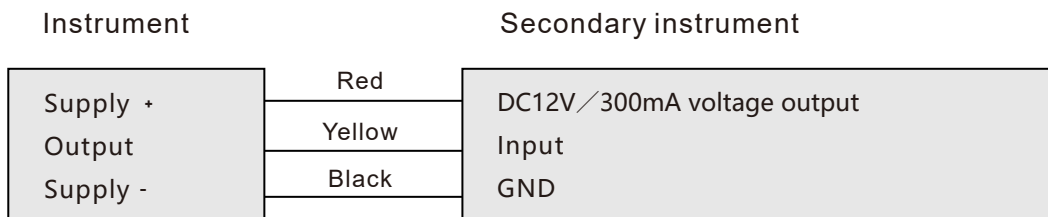


Parameter	
Level Range	5, 7, 10, 12, 15m optional
Blind area	≤ 300 ~ 1200 mm (according to different range and sensor)
Beam angle	< 12°
Accuracy	0.5%FS (at blind-fold drive away, 25 °C)
Output	Analog signal
	4~20mA; 1 ~ 5V; 0~5V; Load>300Ω; 0~5V; 0~10V
Power supply	DC12V/300mA
Consumption	< 1.5W
Min. resolution	1mm
Frequency	20 KHz~43.0KHz
Protection class	P68
Operation temp.	-20°C ~60°C
Housing	ABS/ Nylon
Cable	User defined (with connectors)
Dimension	Φ92mm x 198mm x M60 (5m-15m range)

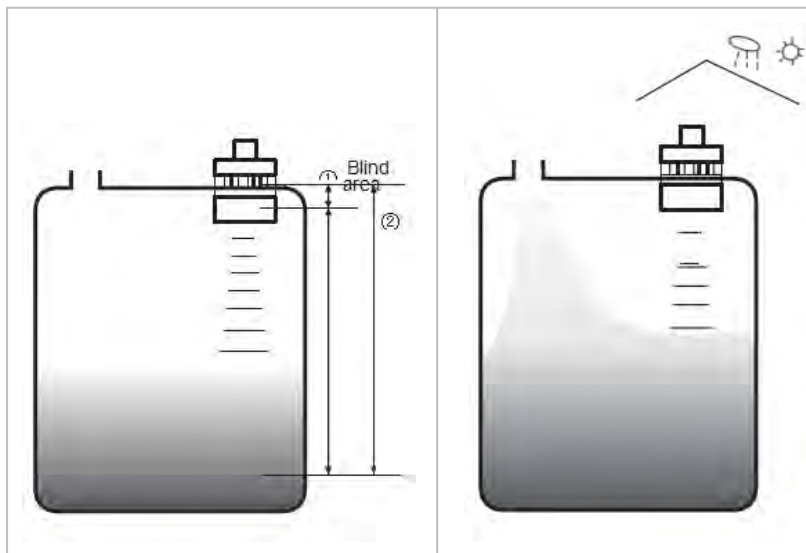
MIDOMET Ultra (MD.ULTRA.1.16.2)

## Wiring connection

1、Wiring diagram of current (voltage) output connecting with secondary instrument



## Installation



- Measure reference surface is the bottom line of sensor
- Highest solid level cannot enter into the blind area
- Level measurement should avoid the feeling hole, aim the smoother level surface
- Better use sun/rain shade when mounting in out field
- When mounting, sensor should be kept distance to the wall surface because of beam angle of ultrasonic wave.
- When measuring the object level, the feeding hole should be avoided to prevent the ultrasound echo being interfered.