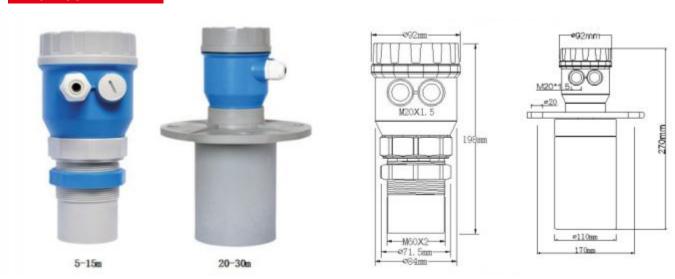


UE3001 LEVEL •DATASHEET•

UE3001

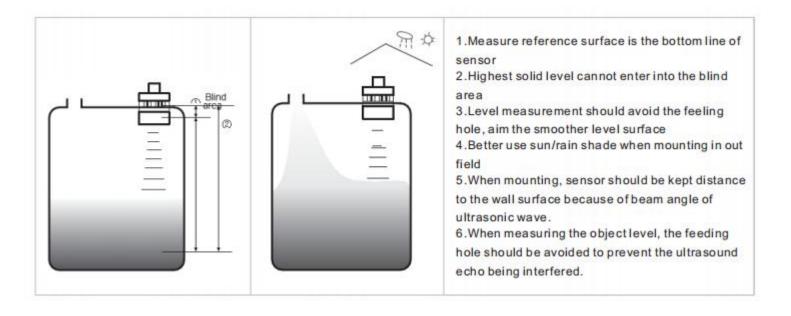
Ultrasonic Distance/Level Sensors

Profiles



UE3001 Ultrasonic Level Sensor combines ultrasonic sensors, temperature sensors, ultrasonic servo circuit, transmission circuit and uses SMD components and ASIC which is developed together with the United States partner. All these features realize 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, dust proof, and can adapt to the most of working conditions on site. On liquid cans, the walls, or equipment arm movement, it's easy to install the UE3001 ultrasonic transmitter. There is no need of such tools as gongs nails, as long as there is a M60×2.0 gongs hole. A very quick and easy installation, maintenance can be realized.

Installation





Features

- 1. Support M60*2 mm threaded into type installation and coil clamping type installation, the installation more convenient
- 2. Many model output optional customizable 4-20ma three-wire system, 1-5v, RS485 more customizable
- 3. Less than 9°C Beam angle design ,Resolution 3mm, less than 200ms responsible time to make sure more accuracy
- 4. Wide range of application, Sealed high-temperature toxic volatile, flammable and explosive of strongly corrosive liquid medium level measurement of non-contact ultrasonic sensors
- 5. Housing adopts the NLEPE synthetic material IP66 waterproof, Anti-Skid, Anti-corrosion, Anti-explosion structure
- 6. High quality terminal blocks ,Excellent anti-jamming is strong, long term stability and durability

Specification

Parameter	UE3001						
Level Range	5, 7,10,12,15m optional						
Blind area	5m range: 400mm; 5m~10m range: 500mm; 10m~15m range: 600mm						
Beam angle	<12°						
Accuracy	0.5%FS (at blind-fold drive away, 25 $^{\circ}\mathrm{C}$)						
Output	Analog signal 4~20mA;1~5V;0~5V; Load>300Ω; 0~5V; 0~10V	Digital signal RS485/RS232	Switch signal NPN Switch signal/ Relay (1 OR 2 channels optional)				
Power supply	DC24V/300mA						
Consumption	<1.5W						
Display	4 bits 8 segment LED display (LCD option available)						
Min. resolution	1mm						
Frequency	20 KHz~43.0KHz						
Working Temp	-20℃ ~60℃						
Protection class	IP65 (default); IP67, IP68 (customized!)						
Explosion proof	Exiall BT4Gb						
Housing	ABS/ Nylon						
Dimension	Ф92mm x 198mm x M60 (5m-15m range) Ф92mm x 270mm x DN80 nonstandard flange (20m-30m range) M60 x 2 or Ф61mm hole with gasket (5m-15m range)						
Installation	DN80 nonstandard flange (20m-30m range)						
Electrical connection	M20 x 1.5 (two units)						



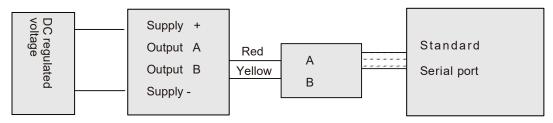
Wiring Connection

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

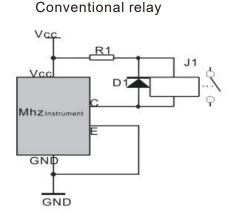
Instrument Secondary instrument Red DC24V / 100mA voltage output Yellow Input Supply Black GND

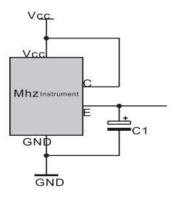
2. Wiring diagram of serial output connecting with PC

External power/ instrument/ 485-232/ PC



3.NPN output wiring diagram





Vcc R1 J1 Vcc MhzInstrument

TTL output

GND

3

How To Order

Part Number Selection Table

UE3001 Selection Type	02	Α	U1	A2	T1	002
Range	01= 1 Meter 02= 2 Meters					
Water Proof	15= 15 Meters A= IP66 B= IP65 C= IP67 D=IP68					
Power Supply	U1=DC12V/max 300mA U2=DC24V/max 300mA (L Ue=DC12V/max 300mA Ex					
Output	A2=Current Output (4-20mA 2 wires) A3=Current Output (4-20mA 3 wires) A4=Current Output (4-20mA 4 wires) N1/N2=Switch output (1 or 2 switches) J1 = Relay (Upper & Lower alarm) V1=Voltage output (0-5V) V2= Voltage output (1-5V) R=Digital RS485(MCU Protocol) X=By Customize					
Temperature	T= 050 °C T1= -1060 °	℃ T2= -2070 ℃				
Cable length	001= Cable 1m 002	2= Cable 2m	X= By Cus	tomized		

Application







4

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