

UE2000/US9000 LEVEL •DATASHEET•

Pressure Measurement 2. Level Measurement 3. Temperature Measurement
Flow Measurement 5. Display & Control Instruments



UE SERIES Explosion Proof Type Ultrasonic Level Meter **US SERIES** Universial Type Ultrasonic Level Meter

Profiles



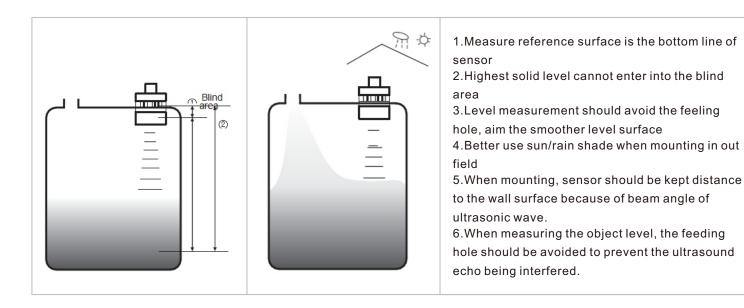
UE2000(Explosion Proof Type)

US9000 (Segregated Type)

US8000 (Integrative Type)

HOLYKELL's Ultrasonic level meter have beautiful appearance, stability performance; explore proof design and good measurement function. Isolated power supply by industrial instruments, all of the output, input lines with lightning protection, overvoltage, over current protection circuit functions. Transmitter function of small, weak energy, high sensitivity, bearing small; a complete sensor system can accurately complete the objects in different environments continuous non-contact measurement; small blind, high accuracy, wide application, send and receive integrated, which can accurately receive weak echo signals to ensure the accuracy and reliability.

Installation





Features

 $1. Support\,M78^{*2}\,mm\,threaded\,into\,type\,installation\,and\,coil\,clamping\,type\,installation,$

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

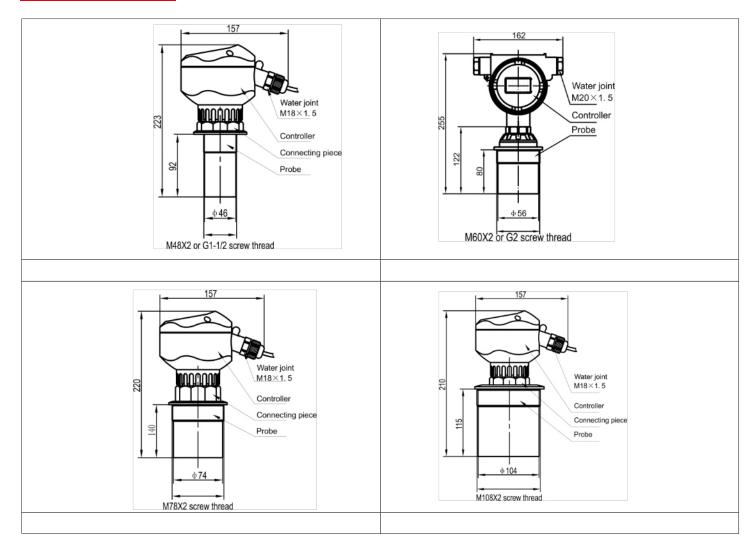
5. Housing adopts the NLEPE synthetic material IP66 waterproof, Anti-Skid, Anti-corrosion, Anti-explosion structure 6. High quality terminal blocks, Excellent anti-jamming is strong, long term stability and durability

Specification

Functions	Integrative Type	Segregated Type			
Level Range:	Standard Type: 5M, 10M, 15M, 20M,30M, 50M.	5M, 10M, 15M, 20M, 30M, 50M, 70M.			
Accuracy:	0.25%-0.5%F.S	0.25%-0.5%F.S			
Blind Zone:	0.25-0.8m	0.25-1.2m			
Working Pressure:	2 Bar (Explore Proof Type is 5 Bar)	2 Bar			
Resolution:	3mm or 0.1%F.S (Max of them)	3mm or 0.1%F.S (Max of them)			
	English language display: Level measurement,	English language display: Level measurement,			
Display:	distance measurement, transmission value,	distance measurement, transmission value,			
	ambient temperature, echo state, alarm display,	ambient temperature, echo state, alarm displa			
	algorithm selection.	algorithm selection.			
Analog Output:	$4 \sim 20 \text{mA}/750 \Omega$ load resistance (2 wire)	$4{\sim}20$ mA/750 Ω load resistance			
	$4 \sim 20 \text{mA}/250 \Omega$ load resistance (4 wire)	$1{\sim}5$ V (3 wires);0 ${\sim}5$ V (3 wires)			
	1 ~ 5 V (3 wires);0 ~ 5 V (3 wires);0 ~ 10 V (3 wires)	0~10 V (3 wires)			
Relay /Alarm Output:	AC 250V/ 8A; DC 30V/ 5A;	AC 250V/ 8A; DC 30V/ 5A;			
	State programmable (optional for 4 wire)	State programmable (optional)			
Power Supply:	24VDC 120mA	220VAC+15% 50Hz			
	12VDC (available to offer power by motor,	24VDC 120mA			
	battery or solar power and so on.)	12VDC (available to offer power by motor,			
		battery or solar power and so on.)			
Environment Temp:	Meter: -20~+60°C	Meter: -20~+60°C			
	Sensor: -20~+80°C	Sensor: -20 ~ +80°C			
Communication:	Rs485 Communications (optional)	Rs485 Communications (optional)			
Explore Proof:	Ex(ia)IICT6	Not available			
Water Proof:	Standard Type: IP66	Meter: IP65 Sensor: Ip68			
Cable of Sensor:	Null	Standard: 10 Meters, Max to 200 Meters			
Sensor Installation:	By level range and model code	By level range and model code			
Store Request:	Temperature: -20 ~ +80°C	Temperature: -20 ~ +80°C			
	Pressure: atmospheric pressure	Pressure: atmospheric pressure			
	Humidity: ≤90%RH	Humidity: ≤90%RH			
	Others : Non-corrosive gases (optional	Others : Non-corrosive gases (optional			
	corrosion probe) or steam, no vibration.	corrosion probe) or steam, no vibration.			

• DATASHEET • LEVEL MEASUREMENT

Dimensions



Wiring connection

Electronic Wires Connection							
0	Red	Vcc+					
Current	Yellow	Signal+					
	Red	Vcc+					
Voltage	Yellow	Signal+					
	Black	GND					
	Red	Vcc+					
	Yellow	RS485A					
RS485	White	RS485B					
	Black	GND					

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How to Order

Part Number Selection Table

Selection Type	UE2000	02	Α	U1	A2	Τ1	002
Model	UE2000(Explosion Proof Type) US8000 (Integrative Type) US9000 (Segregated Type)						
Range	01= 1 Meter 02= 2 Meters 15= 15 Meters						
Water Proof	A= IP66 B= IP65 C= D=IP68	IP67					
Power Supply	U1=DC12V/max 300mA U2=DC24V/max 300mA (UE300 Ue=DC12V/max 300mA Ex	1)					
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 (0-5V) R=Digital RS485(MCU Protocol) X=By Customized						
Temperature	T= 050 ℃ T1= -1060 ℃ T2= -2070 ℃						
Cable Length	001= 1 Meter 002= 2 Met	ers	X= By C	ustomized			

Application

