



AHSONIC3000 ULTRASONIC LEVEL METER





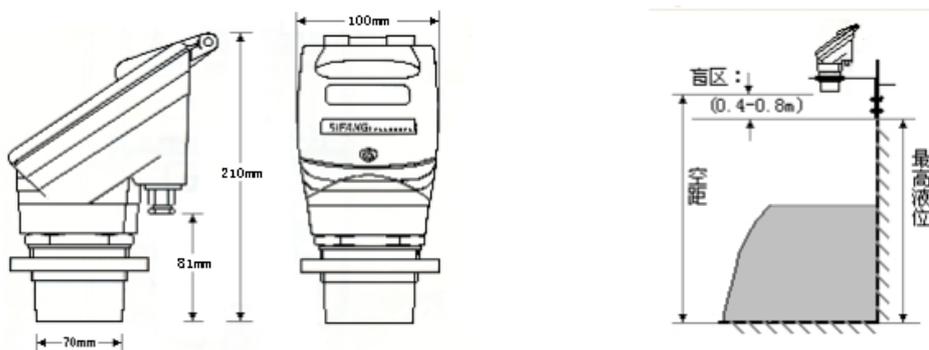
Principle of Operation

The AHHsonic3000 range of compact ultrasonic level transmitters are designed to measure liquid and solids levels up to a range of 20 meters. The range can be configured by the keyboard and display. The AHHsonic3000 is mounted on top of the vessel or tank. The microprocessor in the AHHsonic3000 fires an electronic pulse, which the transducer converts into an acoustic pulse. The pulse travels to the level that is being measured and is reflected back to the transducer. The transducer then converts its energy back into an electronic signal and stops the counter in the microprocessor, which then knowing the speed of sound through the air, can accurately determine the distance.

Specification

Power supply:	DC24V/AC220V	Current output:	4-20mA
Measuring range:	0-20m	Blank zone:	0.3-0.8m
Distinguish rate:	1mm	Accuracy:	0.25%
Ambient temperature:	-25-60°C	Protecting class:	IP65

Dimensions



Installation

AHHsonic3000 series can be mounted easily using fixing screw, please notice:

- 1 The unit should be installed higher than the highest Level of liquid surface to avoid the Blanking zone, and exactly perpendicular to liquid surface.
2. When necessary insert a rubber gasket between the flange of tank and pvc



AET controls

flange in order to cut off noise source.

- When installation, the unit should be mounted far away from wall of tank because of angle of beam.

Operating

Menu introduction

- main menu: display the measuring result and go into next menu code.
- second layer: display following max distict\measuring range\blank zone\changing rate measuring data \ display\ relay1 and relay 2 open dot and close dot.

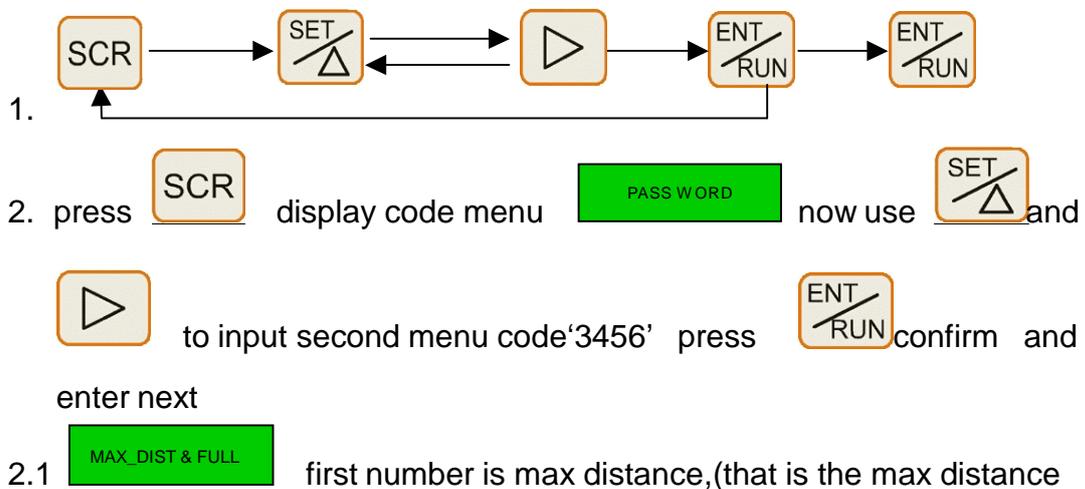
Key description:

 scroll to access the programming and then to run through the various commands.  press this key to enter the edit; when displaying, cursor blinks, then press to increase.

 move next to right  and  also can mode

 After above operating, press this key, repeat to return main menu.

Specification set





AET controls

from sensor to bottom of tank);second number is the highest level(at max

measuring range ,output is 20mA). Press  to mode use  and

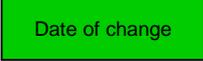
 to change then press  confirms if press  to return

main menu press  to enter next menu.

others data:

 Blanking dist

blank mode the min distance from sensor to level that the unit cannot operate.(30cm-60cm)

 Date of change

increase the number if the level moves faster than 1m and decrease it if a more stable output is required.

 Dist(0) Level(1)

'00'distance '01'leve '02'distance not display relay '03'level also not display relay '06' distance display with signal '07'level display with signal example when moding'01' main display as following

 Level=01.500m

500mis level 1 is high relay 2 is low relay on and off is relay dot only display at no signal

 R1 UP_ON DW_OFF

high alarm ,1: NO 2:NC

 R2:DW_ON UP_OFF

low alarm, 1:NC 2:NO

Code Selection

AHHsonic 3000 ultrasonic level transmitters				
Code	Type			
P	Common LED Display			
Z	Smart 16X2LCD Display			
	Code	Measuring range		
	030	3m		
	050	5m		
	080	8m		
	0100	10m		
	0120	12m		
	0150	15m		
	0200	20m		
	0250	25m		
	Code	Type		
	Y	Integral type		
	K	Remote type		
	Code	Connecting		
	M	Screw connecting		
	F	Flange connecting		
	Code	Anticorrosive type		
	N	Normal		
	V	Anticorrosive type		
	Code	Output		
	E	4~20mA		
	J	Relay output		
	R	RS-485(Smart type)		
	Code	Power supply		
	D	24VDC(integral type)		
	A	220VAC remote type		