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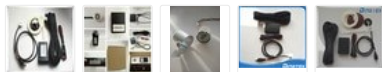


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High resolution Non contact liquid F500
Ultrasonic fuel level sensor diesel tank level
sensor Water level meter for car tank

Price: **US \$105** / piece
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Item specifics

is_customized: Yes

Material: Metal

Theory: Ultrasonic Sensor

Output: analog & digital output

voltage: 9~36V

Resolution: 1mm

Measuring range: 30-2000mm

Working Temperature: -20~70 °C

Gauge (Charges 30\$): optional for read fuel level

Type: Magnetic Sensor

Usage: Level Sensor

Model Number: F500

Type: F500 ultrasonic level transducer

Output: 0-5v/rs232/rs485/4-20ma

Material: Stainless steel/ ABS plastic

Explosion Proof Certificate: EXia II C T6

Installation: Glue fixing no need drill hole

Product Description

Attention: For this type F500 ultrasonic level sensor, the measure range is 2m. And there has different output for you select, which is

0-5v&RS232 and 0-5v&RS485 output. Any questions, you can contact with me on Service Center. Best regards, Rebecca.

1 Overview

The DF500 is one type of ultrasonic level sensor which measure the liquid level without drilling hole on container. The resolution is 1mm or 0.1%FS (the bigger value).

It is applicable for the close container or open container which thickness is less than 5mm. Steel tank or plastic are applicable. Output is optional for 0-5V, RS232 and RS485, it is easy to integrate into the embedded system or SCADA.

In order to realize remote monitoring, there are wireless version for DF500, including zigbee, Wifi, GPRS, 3G by working with our wireless module. Furthermore, GPS module is one optional for the DF500.

2 Specification

Measurement Range	50~ 2000mm
Blind Area	50mm
Resolution	1mm or 0.1%FS, the bigger one
Accuracy	3mm or 0.3%FS, the bigger one (for stable container)
Power Supply	9-36V DC
Current	70mA@12VDC
Output Signal	RS485, RS232, 0-5V, wireless (optional)
Protocol	Dingtek /Customized
Operating Temperature	-20~70
Storage Temperature	-40 ~ 85
Media	liquid
Protection Rank	IP66 for transducer, IP65 for the controller box
Mounting	Surface stick by glue or tape
LED Display	Optional for installation
Wireless	Optional for zigbee, wifi, GPRS, UMTS.
Dimension	Transducer ø30, Controller box 82*55*25mm

3 Interface Definition



3.1 RS232 version

Wire	Function	Remark
Red	Power+	9~36VDC
Black (Thick)	GND	Power GND
Yellow	TXD	RS232 Tx
Blue	RXD	RS232 Rx
Green	Analog	Analog output
Black (Thin)	GND	Signal GND

3.2 RS485 version

Wire	Function	Remark
Red	Power+	9~36VDC
Black (Thick)	GND	Power GND
Yellow	B	RS485 B
Blue	A	RS485 A
Green	Analog	Analog output
Black (Thin)	GND	Signal GND

3.3 Wireless version (Zigbee/Wifi/GPRS/3G)

Pin 1: Red Line: V+,
Pin 2: Black Line: GND

Notes: If there is labels on sensor for pin definition, please act as the labels.

4 Part List



Part List			
NO.	Item	Quantity	Remark
1	Controller Box	1	Drive ultrasonic transducer and output signal
2	Ultrasonic Transducer	1	Transducer attached to bottom of container
3	Transducer Extended Wire	1	7 meters
4	Power and Signal Cable	1	Power supply and signal output
5	Transducer Protection	1	Protect transducer, not necessary
6	Double Faced Tape	1	For aluminium alloy , plastic container
7	Tie	1	Fasten transducer and cable
8	Abrasive Paper	1	Clean the coating of installation point
9 *	Couplant (vaseline)	1	Put between the transducer and container While finding the installation point
10 *	Glue	1	Put between transducer and container for real installation after installation point found. Applicable for alur



*: The couplant and glue is forbidden to delivery for airplane shipping or express shipping. So we do not offer them in the standard package. Please purchase at local market. The couplant (vaseline) is easy to find at medical store. It is applicable only if the glue can work for your container and the transducer.



The LED Display tool is helpful to find the good installation point during installation. It is not included in standard package. One led tool is enough for multi DF550 installation.

5 Analog Value Interpretation

For the analog output, it is 0-5V map to 0-100cm linearly. For example, if the output is 2.5V, then the level is 50cm.

Please notified that, there is voltage lost on the cables. So if the controller box output 2.5V, maybe your device can only get 2.4V after the signal cable transmission.

Deliver by DHL/UPS/FedEx/EMS optional



Our service

If you have any question about our products , please contace me. I will help you familiar with our products better.

- Support 1 years warranty
- The fastest reply: detailed informations, specific model and price of products will be provided quickly after receiving your inquiry.
- Quality assurance: good quality is assured by advanced manufacturing technology. And all products will be checked by our quality-control manager.
- Excellent package: each unit has individual box and all boxes are packed in standard packages.
- OEM available

Company Profile

Dingtek Technology Group locats in China and has three branches in Beijing, Qingdao, and Hongkong. It has independent R & D center , production center and 24-hour quick response service network .

Since 2006 , Dingtek has been focused on embedded systems development , automation research and application. Our main business areas covers sensors design and manufacturing, embedded system design and development, complicated system integration and etc. The application covers automation, automotive, locomotive,new energy.

Besides the standard products, we also offer ODM/OEM for cusotmers special requirement. Not only software design, but also hardware design.We provide not only products, but also satisfactory service !

Our factory and team



Our Factory



Our Team



Packaging Details

Unit Type: piece

Package Size: 18cm x 10cm x 12cm (7.09in x 3.94in x 4.72in)

Package Weight: 0.5kg (1.10lb.)

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