

WD-UHZ-500系列磁敏LED双色光柱液位计

WD-UHZ-500 SERIES MAGNETIC LED LIQUID LEVEL GAUGE

概述 Introduction

UHZ-500系列磁敏LED双色光柱液位计是本公司最新研发的新产品，由于采用LED发光器件，具有亮度高、红绿双色显示、可视距离更远、显示范围更大等优点。由于采用LED主动发光，更便于夜间槽罐液位的观测。

UHZ-500 Series Magnetic LED Liquid Level Gauge is the latest development of our products, due to adopting LED light-emitting elements, the level gauge has the following advantages: high brightness, red and green color displays, visual distance farther, wider showing range, etc. As a result of LED light-emitting actively, it is more convenient for night-time level observations.

UHZ-500系列磁敏LED双色光柱液位计，其液位显示采用高亮度LED双色发光电子模块，红、绿光柱显示液位，白天观察距离60m，夜间可达100m以上。该产品适用于石油、化工、冶金、食品、酿酒、医院、化学、纤维、化肥、环保、电力及给水等部门，用以测量受压容器或开口容器内液体的液位，液位计可现场直接指示液位，亦可附加液位上下限报警和4-20mA远传变送，实现远距离液位报警和监控。

Red and green show liquid level directly by using high-brightness LED electronic modules. during the day the distance for observation can reach 60m, up to 100m or more at night. The product is applied to petroleum, chemical industry, metallurgy, food, wine, hospitals, chemical, fibers, fertilizers, water supply and environmental protection project, etc. The gauge can measure liquid level which is normal pressure or under pressure, displaying the level directly on site, also attached high or low level alarming switch and 4-20mA transmission, it can achieve long-distance level alarming and monitoring.



工作原理 Principle

液位计主导管内磁性浮子根据介质的比重设计，浮子内磁钢与容器内液面同一高度，LED显示标尺内装有半导体磁敏传感器，并和LED发光模块上下有序排列，半导体磁敏传感器在浮球磁性的作用下，触发相应的数字电路，液位以下LED红色显示，液位以上LED绿色显示；绿色显示汽相，红色显示液相，红绿交界处就是容器内的实际液位。

Level gauge float which is in the tube is designed according to the medium density, float magnet is the same height as the level in the vessel, semiconductor magnetic sensors are fixed in the LED display ruler, the sensors are orderly arranged with LED light modules. Under the action of magnetic float, the sensors trigger the corresponding digital circuits, level below shows red LED, level above shows green; the junction of red and green is the actual level.

产品特点 Characteristics

1、气绿液红，发光显示清晰，观察角度大，可视距离远。可以红绿光柱清晰显示液位，适宜在光线暗的场所中应用，夜间观察更醒目。

Gas green & liquid red LED, displaying clearly, wide range for observation, long visible distance, be convenient for night observation or some sites which is badly lighted.

2、适用范围广：广泛适用于炼油厂、炼钢厂、焦化厂、发电厂、油田联合站、化工厂等用户的大型液体容器上的液位显示。

Wide scope of application: widely used in oil refineries, steel mills, coking plants, power plants, oil field joint stations, chemical plants and other large liquid containers.

3、适用介质广：水、稀油、碱液、液氨、盐酸、硫酸等腐蚀性溶液（定货时注明介质）可现场显示、远传显示液位。
 For kinds of medium: water, light oil, lye, ammonia, hydrochloric acid, sulfuric acid and other corrosive liquid (pls supply the medium name when order)

4、可输出4-20mADC标准信号，实现液位的远传显示，容器群液位的集中监测控制；亦可配液位开关，实现连锁保护。
 Outputting 4-20mADC standard signal to achieve remote display, the container cluster can be centralized monitoring and control; also be equipped with liquid level switches to achieve chain protection.

5、如客户特殊要求，亦可实现气红液绿。

If customer have special requirements ,the gauge can also be realized gas red & liquid green.

技术参数 Technical Parameters

公称压力：0.6、1.0、1.6、2.5、4.0、6.4、10.0、16.0Mpa

Normal Pressure: 0.6、1.0、1.6、2.5、4.0、6.4、10.0、16.0Mpa

介质温度：-40℃~200℃

Medium Temp: -40℃~200℃

介质密度：≥0.45 g/cm³

Medium Density: ≥0.45 g/cm³

过程连接：法兰标准HG20592-20597,法兰密封面RF、凸面、凹面

Process Connection: Flange Standard HG20592-20597, sealing surface RF、MFM

接液材质：304、316、316L、PP、PFTE

Wetted Material: 304、316、316L、PP、PFTE

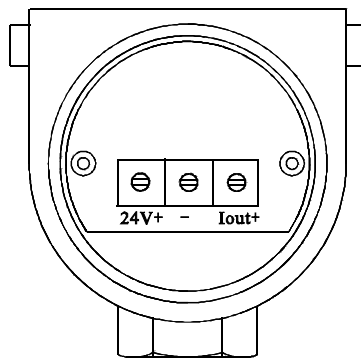
中心距：普通型 500-6000mm（任选）

Center-center distance: 500-6000mm(for selection)

电源电压：DC24V 6W/m

Power Supply: DC24V 6W/m

接线方式 Electrical Wiring



材料选用表(一)

流体	材料													
	碳钢	铸铁	302或304 不锈钢	316 不锈钢	青铜	蒙乃尔 合金	哈氏 合金B	哈氏 合金C	不锈钢 #20	钛	钴-铬 合金#6	416 不锈钢	440C 不锈钢	17-4PH 不锈钢
乙醛	A	A	A	A	A	A	LL	A	A	LL	LL	A	A	A
醋酸（无气的）	C	C	B	B	B	B	A	C	A	A	A	C	C	B
醋酸（充气的）	C	C	A	A	A	A	A	C	A	A	A	C	C	B
醋酸蒸汽	C	C	A	A	B	B	LL	C	B	A	A	C	C	B
硫酸铝	C	C	A	A	B	B	A	A	A	A	LL	C	C	LL

注:符号 A—能够或正被成功地应用; B—应用过程应注意; C—不能应用; LL—缺乏资料。