

WD-UDZ-01S/02S/03S系列双色电接点液位计

WD-UDZ-01S/02S/03S SERIES DOUBLE COLOR ELECTRIC-CONTACT-POINT LIQUID METER

概述 Introduction

UDZ-01S、-02S、-03S型双色电接点液位计采用红绿两组发光管在显示中模拟水(绿)与汽(红),明显指示水位在容器中的位置,其中01S型为中低压液位计、02S型为高压液位计、03S型为超高压液位计。整套仪表由一次测量筒和二次仪表组成。

UDZ-01S/02S/03S double color electric-contact-point liquid meter uses the red green two groups of photo tubes, (green) to simulate the water and (red) with the steam, obviously instructs the water level in the vessel, 01S for medium low pressure liquid meter, 02S for high-pressure liquid meter, 03S for ultrahigh pressure liquid meter. The whole measuring appliance is composed of once-measuring cylinder and twice-measuring instrument.



双色电接点液位计突出的优点是能适应锅炉变参数运行,在锅炉启停等变参数运行工况下。仪表均能在控制室内准确地显示水位。由于它的水位容器截面积较大、水柱的温降所引起的冷却误差远比云母(玻璃)水位计小。电接点液位计的水容器离汽鼓很近、电接点至二次仪表又全是电信号传送,故本仪表不仅时延小,而且无机械传动所产生的变差和刻度误差,不需要进行误差计算和调整。不需要复杂的校验装置,使仪表检修、校验大为简化,电接点液位计构造简单、体积小,并省去了笨重的差压计、传压导管和阀门,减少了金属消耗量、减轻了工人的检修劳动强度。

The most advantage of the double color electric-contact-point liquid meter is to adapt the boiler changeable parameter, under the boiler stop and open operating mode. The instrument can accurately demonstrate the water level in the control room. Due to the cross-sectional area of the level bigger, the cooling error caused by the water column temperature drop is far smaller than (glass) meter. The water vessel of the electric-contact-point meter is very near to the steam drum, electric-contact-point to twice-measuring instrument is the electrical signal transmission, therefore this measuring appliance not only extends slightly, but also non-mechanical movement difference and the error of division, need not any error computation and adjustment. Not need the complex verification installment, make the measuring appliance maintenance, the verification simple. With simple structure and small volume, the meter has saved heavy pressure meter, the pipe for pressure transmission and valve, reduce the metal consumption and worker's overhaul intensity.

双色电接点液位计具有工作原理和结构简单、造价低、显示直观、运行可靠、判断和排除故障方便、维修量小等优点。

The other advantages of The double color electric-contact-point liquidmeter are structure simple, the construction cost low, the demonstration direct-viewing, the running reliable, judging and removing the breakdown conveniently, the service quantity small and so on.

03型测量筒根据30万KW以上电力机组工况超高压力和临界要求,对整体密封性能,结构强度等要求更高,因此本结构选择合理的材质,改变了传统的结构,提高了运行中的安全系数。同时新的结构给安装和维修带来很大方便。

According to hyperpressure and critical request of above 300,000 KW electric power unit, 03cylinder has higher characteristic, to the whole seal and structural strength, therefore this structure select reasonable material, change the traditional structure, improve safety coefficient. The stylish structure makes the installment and the service greatly convenient.

本仪表主要用于监视锅炉汽包水位、高压加热器、低压加热器、除氧器、蒸发器、凝气器。直流锅炉启动分离器和双水内冷发电机水箱等水位测量和其它导电液体的液位测量，但不适用于易燃易爆介质。

This measuring appliance mainly is used for monitoring the level measurement of the boiler steam drum level, the high-pressured heater, the low pressure heater, eliminating oxygen, the evaporator, the air condenser, DC boiler and the double water level and other electric conduction liquids, but it is not used in the flammable explosive medium.

目前我公司生产的双色电接点液位计的接点是以超纯氧化铝瓷管作绝缘的，一次测量筒共有几个接点，二次仪表就有几个显示点。另外二次仪表还具有越限报警、满水、缺水保护等性能。

At present the contact of The double color electric-contact-point liquidmeter is made by the hyperpure aluminium oxide tube for insulation, how many point the once-measure cylinder has, the same as twice-measure instrument. Moreover the twice-measure instrument can alarm for full or shortage water.

本仪表显示器件采用5×5平面型发光二级管新产品，具有寿命长、功耗小、光通量大、显示明亮等特点。本公司所产仪表的电子元件经过严格的工艺筛选，在正常使用条件下一年内如有质量问题，包退、包修、包换。

The display component of the instrument uses 5×5 shining diode tube, with the life long, the power loss small, light full, demonstration bright and so on. All the electronic component are through strict selection. If there exit quality problem under normal using during one year, we provide guaranteed for return, repair, exchange.

主要技术性能 Technical Parameter

报警触点容量 Alarming contact capacity: 220VAC 3A

保护触点容量 Protect contact capacity: 220VAC 3A

水阻要求 Resistance:

01S型 ≤ 50KΩ 02S型 ≤ 100KΩ 03S型 ≤ 120KΩ

消耗功率: 约8VA (接点全导通时)

Consumed power: about 8VA (all points work)

工作电压 Work pressure: 220VAC 10%

工作时间: 连续 Work time: continue

外形尺寸 Out size: 160×80×410mm

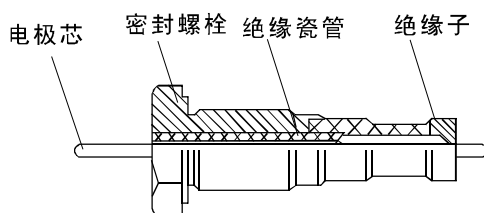
重量: 约3.3Kg Weight: about 3.3kg

信号线长度 Signal line length: ≤ 200m

使用环境: 温度为 -10℃ ~ +50℃、相对湿度不大于85%、不含腐蚀性气体的室内。

Work environment: Temperature -10℃ ~ +50℃, humidity no more than 85%, no corrosion gas in room

外型结构图 Outline Construction



规格型号MODEL & SPEC

测量筒Cylinder

型号	代 码			说明
WD-UDZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
工作压力	01S 02S 03S			$\leq 4.41\text{MPa}$ $\leq 15.68\text{MPa}$ $\leq 20.6\text{MPa}$
工作温度		01S 02S 03S		$\leq 250^\circ\text{C}$ $\leq 350^\circ\text{C}$ $\leq 400^\circ\text{C}$
测量点数			11 13 15 17 19	11点 13点 15点 17点 19点
用途			Q G Y	汽泡 高压 除氧器

产品名称	型号	额定工况	显示接点数	变送范围
锅炉汽包 水位测量筒	WD-UDZ-02S-19Q	P=15.68Mpa	19	$\pm 300\text{mm}$
	WD-UDZ-02S-17Q	t=350 $^\circ\text{C}$	17	$\pm 250\text{mm}$
	WD-UDZ-01S-19Q	P=4.41Mpa t=250 $^\circ\text{C}$	19	$\pm 300\text{mm}$
	WD-UDZ-01S-17Q		17	$\pm 250\text{mm}$
	WD-UDZ-01S-15Q		15	$\pm 200\text{mm}$
	WD-UDZ-01S-13Q		13	$\pm 150\text{mm}$
	WD-UDZ-01S-11Q	11	$\pm 100\text{mm}$	
高压加 热器量筒	WD-UDZ-02S-17G	P=15.68Mpa t=350 $^\circ\text{C}$	17	0~1000mm
除氧器 测量筒	WD-UDZ-01S-17Y	P=4.41Mpa t=250 $^\circ\text{C}$	17	0~1700mm

二次仪表Twice Display Instrument

型号	代 码			说明
WD-UDZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
工作压力	01S 02S 03S			$\leq 4.41\text{MPa}$ $\leq 15.68\text{MPa}$ $\leq 20.6\text{MPa}$
测量点数		11 13 15 17 19		11点 13点 15点 17点 19点
用途			Q G Y	汽泡 高压 除氧器
安装方式			Z H	直式 横式

型号	表头规格	显示点数	显示范围	闪光点
WD-UDZ-01S-19Q-Z(H)	160×80×410mm	19	$\pm 300\text{mm}$	2
WD-UDZ-02S-19Q-Z(H)		19	$\pm 300\text{mm}$	2
WD-UDZ-01S-17Q-Z(H)		17	$\pm 250\text{mm}$	2
WD-UDZ-02S-17Q-Z(H)		17	$\pm 250\text{mm}$	2
WD-UDZ-01S-15Q-Z(H)		15	$\pm 200\text{mm}$	2
WD-UDZ-01S-13Q-Z(H)		13	$\pm 150\text{mm}$	2
WD-UDZ-01S-11Q-Z(H)		11	$\pm 100\text{mm}$	2
WD-UDZ-02S-17Q-Z(H)		17	0~1000mm	2
WD-UDZ-01S-17Q-Z(H)		17	0~1700mm	2

订货须知Order Notice

- 1、准确提供产品型号. 测量点数. Provide production model, measuring point
- 2、测量范围. 中心距. Measure range, center to center distance
- 3、压力. 温度. Pressure, temperature
- 4、信号输出量. 及配套二次仪表. Signal output and twice-measure instrument