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URS-100 系列静压式液位变送器

URS-100 SERIES STATIC PRESSURE LIQUID LEVEL TRANSMITTER

概述 INTRODUCTION

URS-100系列静压式液位变送器采用德国SENSE压力传感器原装组件生产,主要用于城市给排水,水处理厂、水库、河流、海洋、储油罐、及石油、化工、电力等部门的液位测量,被测介质可以是水、油、酸性、碱性及粘稠性液体。仪表输出二线制4~20mADC标准电流信号,具有技术先进、精度高、质量稳定可靠,安装使用方便等优点,是一种过程检测控制系统中理想的液位仪表。

URS-100 series static pressure liquid level transmitters adopt original manufactured pressure transducers from Germany SENSE. The instruments are mostly applied to measure the level of water, oil, acid, alkali and viscous liquid in feeding and draining water, water controlling factory, reservoir, river, ocean and storage vessel or in the field of petroleum, chemical engineering and electric power etc.. Transmitter outputs a two-wire 4~20mADC standard current signal. Advanced in technology, precise in measure, reliable in quality, easy in installation, it is an ideal liquid level instrument for process detecting and controlling system.

结构原理 STRUCTURE PRINCIPLE

URS-100系列静压式液位变送器是通过测量液体的液位高度而产生的静压力来测定液体液位的。当把液位变送器的传感器部分投入到液体介质中时,传感器把液体的静压转换为电压信号,该电压信号经放大后转化成4~20mADC标准电流信号输出。

URS-100 series static pressure liquid level transmitter measure liquid level by hydrostatic head related to liquid level. When the transducer unit is dived into liquid, the static pressure is converted into voltage signal, then amplified into 4~20mADC standard current output.

主要技术参数

MAIN TECHNICAL PARAMETER

测量范围 measuring range: 0~1m; 0~100m

输出信号 output: 4~20mADC 二线制

精确度 accuracy: 0.2级, 可提供0.1级

介质温度 medium temperature: -40~100℃

环境温度 ambient temperature: -30~80℃

环境温度影响 temperature influence:

在温度补偿范围内 in temperature compensation range, 零位变化量 zero change $\leq \pm 0.3\%/10^\circ\text{C}$

量程变化量 span change $\leq \pm 0.2\%/10^\circ\text{C}$

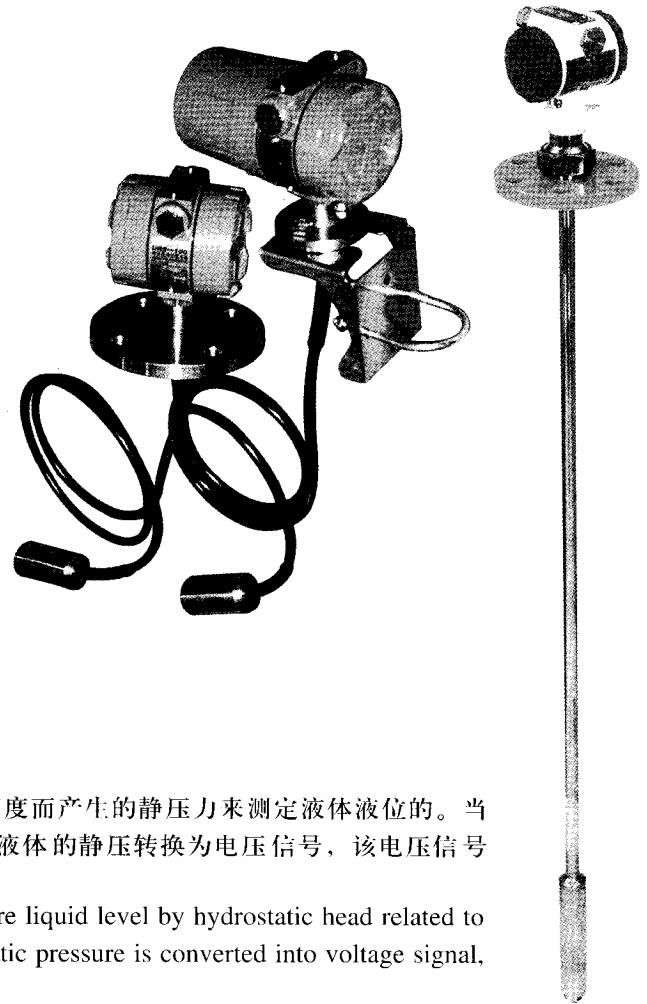
电源电压 power:

24VDC, 按负载特性, 电源电压可达12~40VDC according to loading characteristic in the range:

12~40VDC

电源电压影响 power influence:

在规定的电压范围内, 输出变换量 in stated voltage range, output change: $< 0.01\%/1\text{V}$



射频干扰影响 electromagnetic radiation influence:

当变送器正常安装及罩壳盖紧时, 对射频频率为27~1000MHz之间和场强为30V/m的干扰, 输出变化量 $< 0.1\%$ 。

When transmitter mounted normally and cover closed, output change $< 0.1\%$ at frequency 27~1000MHz and strength 30V/m

长期稳定性 stability: $\leq \pm 0.3\%$ (6个月)

防爆标志 explosion proof classification:

本安型 intrinsically safe type: Ex ib IIC T4~T6,

隔爆型 explosion proof type: Ex d IIB T4

外壳防护等级 enclosure classification: IP65

连接形式 connection mode:

URS-100型:

法兰安装 flange: DN50 PN1.0凸面 convex,

法兰标准 flange standard: HG20598-97

支架安装 bracket connecting

卫生快装卡箍 sanitary rapid snap link: DN50

URS-100S型: 螺纹安装 screw connecting: G3/4"