XMT-620 智能型液位/容量(重量)显示调节仪
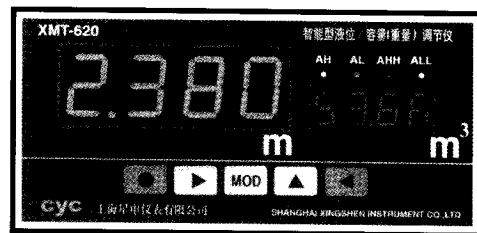## XMT-620 INTELLIGENT LEVEL/VOLUME(WEIGHT) INDICATING REGULATOR

概述 INTRODUCTION

　　XMT-620智能型液位/容量（重量）显示调节仪可对卧式储罐的液体体积进行计量检测，仪表面板上有二组数字显示窗，分别显示容器内的液位高度和体积容量（重量）。仪表可与不同类型的液位变送器配套使用，广泛应用于电力、石油、化工、轻纺、环保、食品和水处理等行业的工业过程测量和控制。

　　XMT-620 intelligent level/volume(weight) indicating regulator can calculate liquid volume in horizontal tanks. Two digit display windows are located on panel of instrument, indicating liquid level and volume(weight) in vessel respectively. Matched with various liquid level transmitter, the instruments are widely suitable for industrial processes and control in the field of electric power, petroleum, chemical, light textile, environment protection, foodstuff and water treatment etc.

主要技术参数 SPECIFICATION

输入信号 input signal：4～20mADC或1～5VDC
测量控制周期 measure and control cycle：0.2s
显示精度 display precision：±0.2%FS ±1 字，自动对温漂，
　　时漂进行补偿 compensate and correct the temperature and time drift automatically
分辨率 resolution：1/16000 14位A/D转换器
显示范围 display range：-1999~9999
外供电源 voltage output：24VDC，负载≤30mA
接点容量 contact capacity：250VAC 2A，
　　　　　阻性负载 resistive load
工作环境 operating environment：温度 temperature：0~50℃
　　　　　　　　　　　　　　　湿度 humidity：5~90%
共模抑制比 common mode rejection ratio：120dB
50Hz串模干扰 serial mode interference rejection：50dB
电源电压 power supply：AC220V +10% -15% 50Hz
功耗 power consumption：5VA
开孔尺寸 opening size：152X76

特点 FEATURES

　　显示液位的同时，还显示容量(重量)；量程自由设定，现场标定，可消除由传感器安装位置或传感器、变送器等引起的测量误差；4点报警(或控制)输出带RS-232或RS-485通讯接口；自动对温度漂移、时间漂移进行补偿和修正，在0～50℃的温度范围内长期使用均保证±0.2%FS的精度；采用进口集成电路，100%整机老化及测试，保证仪表的高可靠性；独特的抗电磁干扰技术，电源抗干扰设计及软件故障自动恢复技术，保证仪表在各种恶劣条件下正常运行。

　　display liquid level and volume(weight) at same time range can be set freely, also can be calibrated locally to eliminate measure error due to transducer installation, or sensor and transmitter; 4 points alarms (or controls) output with RS-232 or RS-485 communication interface; compensate and correct the temperature and time drift automatically, assure ±0.2%FS accuracy in the range of 0~50℃ for long time; import IC be used, and ageing test for 100% whole instrument, which assure high reliability; Unique electromagnetic interference rejecting technology, power supply anti-interference design and software failure automatic recovery technology assure normal operation at all kinds of terrible condition.
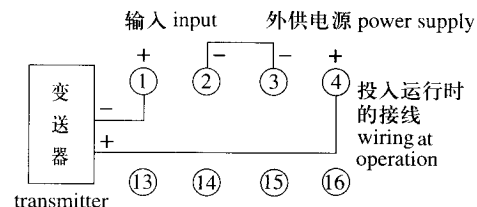
容量、重量显示
VOLLIME OR WEIGHT DISPLAY

　　仪表可根据液位和容器尺寸及比重，计算出容量或重量。如下图所示贮存罐，设定L、r、b 三个尺寸参数后，即可根据液位计算出容量，若需要显示重量，需要设定密度参数P。显示容量可设定P=1.000
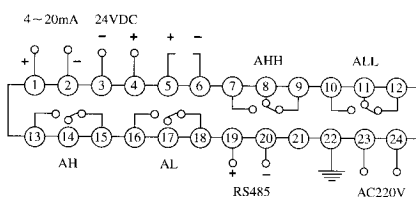
　　The instrument can calculate the volume or weight according to level, vessel size and specific gravity.

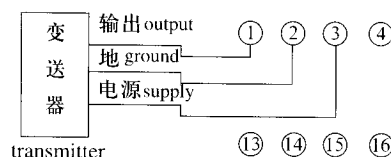## 接线端子图 TERMINALS WIRING DRAWING

与2线制液位变送器的接线
wiring to 2-wire liquid level transmitter

2个报警点的接线
2 alarm points wiring

与3线制液位变送器的接线
wiring to 3-wire liquid level transmitter

型号规格 MODEL AND SPEC

XMT-620	智能型液位/容量(重量)显示调节仪 intelligent level/volume(weight) indicating regulator			
	－	1	4 ～20mADC	2	1 ～5VDC	输入 input signal
	A	变送输出 transmission output: 4 ～20mA 或1 ～5V			选项 options
	B	外供电源 voltage output:24VDC			
	C	上下限报警输出 upper and lower limit alarms output			
	D	双上双下限报警输出 double upper and double lower limit alarms output			
	S	带通讯接口 with communication interface:RS485 或RS232			

$$V=2LR\cos(\arcsin\frac{R-H}{K})dH$$