



产品描述 Description

ST550-LC是一种导轨(DIN)安装的称重变送仪表,采用Delta-sigma模数转换及数字滤波处理技术。通过对称重传感器(组)输出的弱重量信号进行数字处理,输出相应的模拟量电信号至用户的上位系统,通过RS232、RS485或4~20mA、0~5V、0~10V通信,很容易与触摸屏或PLC组成称重系统。

ST550LC is a DIN-rail mount housing weighing terminal. It adopts the Delta - sigma AD conversion and digital filter processing technology. Based on weighing sensor (group) the weak weight of the output signal digital processing, the corresponding analog output electric signal to the user's host system, it is very easy to build a master/slave controlling system via RS232, RS485 serial port or analog (4~20mA, 0~5V, 0~10V) with touch screen and PLC host devices.

- 6位LED显示, 6个称重状态显示
6-digit LED display, 6 weighing status display
- 多级动态数字滤波, 满足高速动态称重需求
Multistage dynamic digital filter, meet the demand of high speed dynamic weighing
- 支持免砝码标定功能或砝码标定功能
Support weight-free calibration & weight calibration
- 抗电磁干扰、抗外界震动
Resistance to electromagnetic interference, Shock resistant

产品特点 Feature

- 显示分度100,000
Up to 100,000 Display Division
- 最大速率400次/秒
Up to 400Hz weight updating rate
- 1路传感器接口, 最多支持4个350欧姆传感器
Support 1 loadcell port, up to 4 x 350 ohm load cells
- 1路RS232与1路RS485双串口通讯口, 支持MODBUS-RTU 通讯协议
Support 1RS232, 1RS485 Serial communication, support MODBUS-RTU
- 支持模拟量输出
Support analog output
- 400Hz/200Hz/100Hz速度可选的A/D重量更新速度
400Hz / 200Hz / 100Hz A/D updating rate

选项 Options

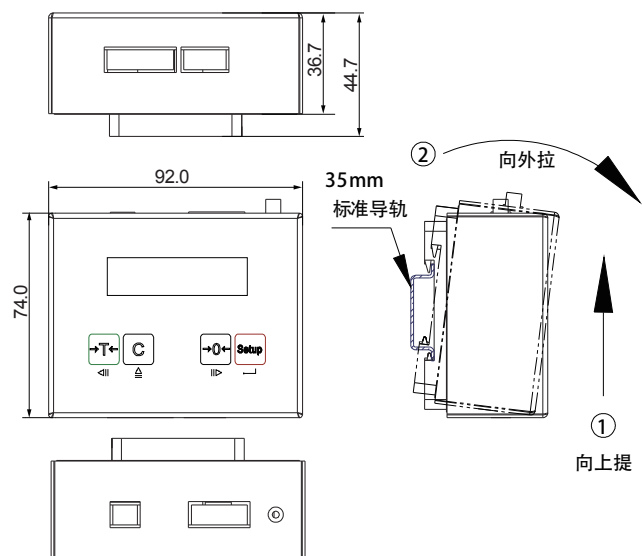
- 4~20mA、0~5V、0~10V模拟量(AN)输出
Analog (4~20mA, 0-5V, 0-10V) output
- 20~100HZ重量连续输出
20-100HZ continuously weight value output

Modbus RTU

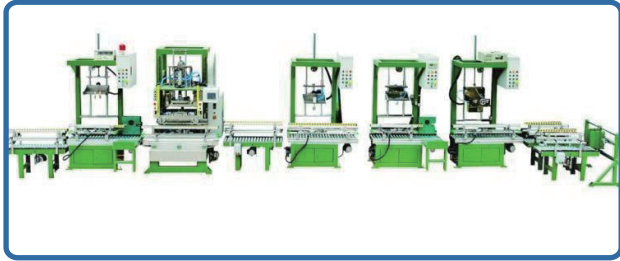
参数规格 Parameter Specification

精度 Accuracy	
精度等级 Accuracy Level	III
EU认证 EU Approval	显示分度100,000 Up to 100,000 Display Division
显示和按键 Display and Key	
显示 Display	6位LED显示 6 digit LED display
称重状态显示 Weight State Display	通讯指示灯、零允差、零跟踪、动态、净重、RUN Bus、zerotol、zerotrack、motion、NET、RUN
按键 Key	4个功能键(去皮、清皮、清零、设置) 4 function keys (Tare、clear、zero、setup)
AD转换 AD Channel	
类型 Type	Σ/Δ 24位AD转换, 带模拟(analog)和数字滤波(digital filtering)
转换速率 Conversion Rate	最大转换速率为400次/秒 The maximum conversion rate is 400 times per second
最高采样频率 Highest Speed ADC	400HZ
零点漂移 Zero drift	< 0.02 $\mu\text{V}/^\circ\text{C}$
输入范围 Input Range	-10mV ~ 30mV
精度 Division	显示精度100,000 Display Division
秤的标定和功能 Scale Calibration and Function	
标定 Calibration	砝码标定和免砝码标定 Weight-free & weight calibration
滤波 Filter	多级数字滤波 Multistage dynamic digital filter
秤的功能 Scale Function	去皮、清皮、零点自动跟踪、运动检测 Tare、clear、zerotrack、motion
其他功能 Other Function	三种可选模拟量输出4~20mA、0~5V、0~10V
输入点/输出点(I/O)	无 None
线性和稳定性 Linearity and Stability	
非线性 Nonlinearity	高于(Better than) 0.002%FS;
温度系数 Temperature	$\leq 5\text{ppm}/^\circ\text{C}$
传感器 Load cell	
激励电压 Excitation voltage	5VDC
连接传感器数目 Load cell number	4个350 Ω 传感器 4x350 ohm load cells
连接方式 Connection type	四线制或六线制 Four-wire or six-wire
通讯 Communication	
通讯接口 Communication port	RS232、RS485
安装 Installation	
安装方式 Mounting type	标准工业导轨(DIN)安装 Standard Din rail mounting
环境和外壳 Environment and Shell	
工作温度 Operating Temperature	-10 $^\circ\text{C}$ 到40 $^\circ\text{C}$, 最大湿度95%(humidity), 无冷凝(non-condensing)
外壳材质 Housing material	304不锈钢 304 stainless steel Enclosure
功率 Power	24VDC电源输入, 整机最大功耗3W Power consumption

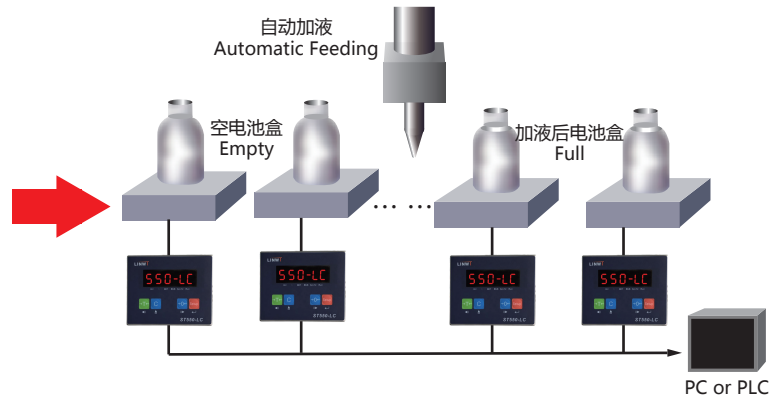
外形尺寸(单位mm) Outline Dimension



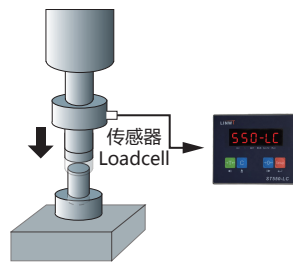
ST550-LC 过程称重显示控制器应用场合 ST550-LC Application



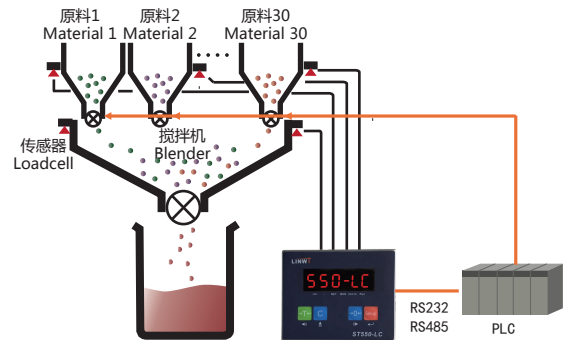
电池液装配系统应用
Battery Assembly system



混凝土搅拌系统应用
Application in concrete mixing system



压力管理
Pressure measurement



配料系统应用
Application in batching system

型号选择

Model Identification

型号 Model	外壳类型 Enclosure	选件1 Option 1	选件2 Option 2	软件版本 Software Version	语言 Language
ST550LC	1: 导轨 1: DIN	0: 无 0: None	0: 无 0: None 2: 模拟量 (AN) (4-20mA/0-5V/0-10V) 2: Analog (AN) (4-20mA/0-5V/0-10V)	0: 基本 0: Basic	0: 中文 0: Chinese 1: 英语 1: English

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