

Type ST550D Weighing Terminal



产品描述 Description

ST550D是一种导轨(DIN)安装的过程控制仪表, 主要应用于工业过程中的灌装、包装、配料、检重等场合, 通过RS232/485串口、Profibus、以太网通信、模拟量, I/O, 很容易与触摸屏或PLC组成系统。

适用于橡胶、化工、冶金、烟草、制药、食品、电池液充装等工业领域。

ST550D is a DIN-rail mounting weighing terminal, and mainly applies in filling, packing, batching, check weighing .It is very easy to build a master/slave controlling system via RS232/485 serial port, Prifibus, Ethernet, Analog, I/Owith HMI and PLC host devices.

Suitable for rubber, chemical, metallurgy, tobacco, pharmaceutical, food, battery filling industry.

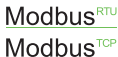
- 128*32 OLED点阵显示
128*32 OLED display
- 多级动态数字滤波, 满足高速动态称重需求
Multistage dynamic digital filter, meet the demand of high speed dynamic weighing
- 抗电磁干扰、抗外界震动
Resistance to electromagnetic interference、Shock resistant
- 支持多种选件
Support multiple options

产品特点 Feature

- 显示分度150,000
Up to 150,000 Display Division
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 4x350 ohm load cells
- 1路RS232与1路485双串口通讯口, 支持MODBUS-RTU
Spport 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
- 简单比较预置点、顺序控制预置点、减重控制预置点
Simple comparison set point、Sequence control set point
weight loss control set point
- 高速动态检重功能、4种物料双速配料功能
High speed dynamic check weighing, 4 materials 2 speeds
batching function

选项 Options

- 模拟量(AN)输出、MODBUS-RTU/TCP
Analog output、MODBUS-RTU/TCP
- 8进8出I/O控制、Profibus-DP、Ethernet/IP
8 input / 8output, Profibus-DP, Ethernet/IP
- 20-100HZ重量连续输出
20-100HZ continuously weight value output
- 10/100M自适应以太网口
10/100M adaptive Ethernet port



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150,000 Up to 150,000 Display Division
显示和按键 Display and Key	
显示 Display	128*32 OLED点阵显示 128*32 OLED display
称重状态显示 Weight State Display	净重、运动检测、零点、单位 Net weight、motion、Zero、Unit
按键 Key	4个功能键(去皮、清皮、清零、确认) 4 function keys (Zero、Tare、Clear、Conform)
电源开关 Power Switch	无 None

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
最小输入值 Minimum input vallue	0.06uV/d
认证最小输入	Minimum input authentication: 1uV/d (贸易模式 transaction)
输入范围 Input Range	-10mV ~ 30mV
精度 Division	显示精度150,000 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 calibration, 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, zero, zerotrack, motion
其他功能 Other Function	皮重值、净重显示 Tare Value、Net Value display
输入点 Input Point	8 Eight
输出点 Output Point	8 Eight

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、Ethernet/IP、MODBUS-RTU/TCP、Profibus、Analog
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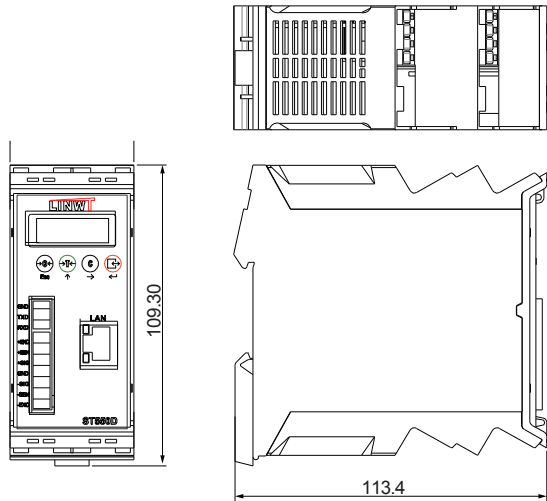
安装 Installation

安装方式 Mounting type	标准工业导轨(DIN)安装 Standard Din rail mount
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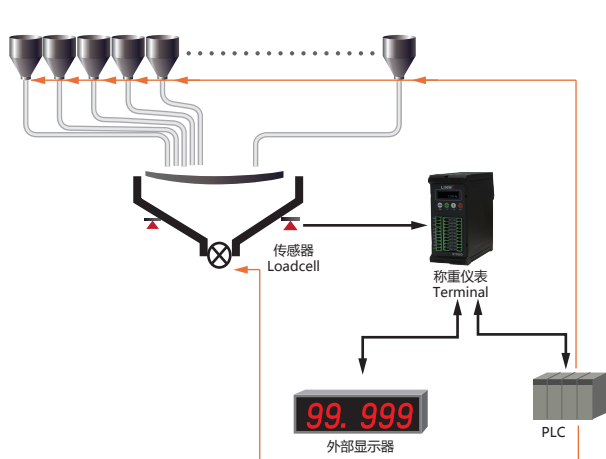
环境和外壳 Environment and Shell

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	ABS
功率 Power	24VDC电源输入, 整机最大功耗3W Power consumption

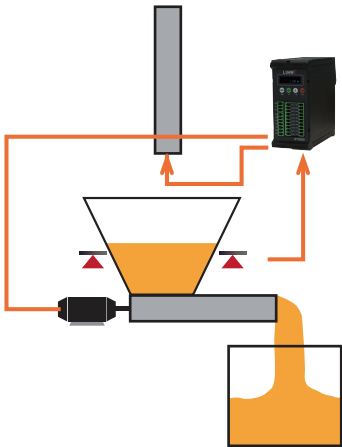
外形尺寸(单位mm) Outline Dimension



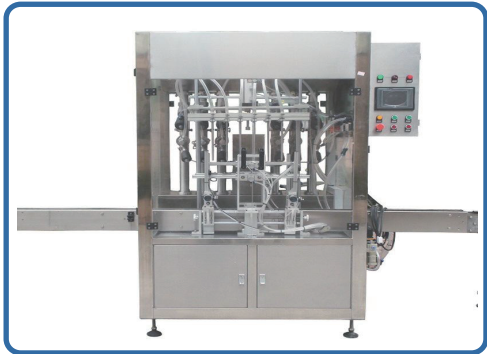
ST550D过程称重显示控制器应用场合
ST550D Application



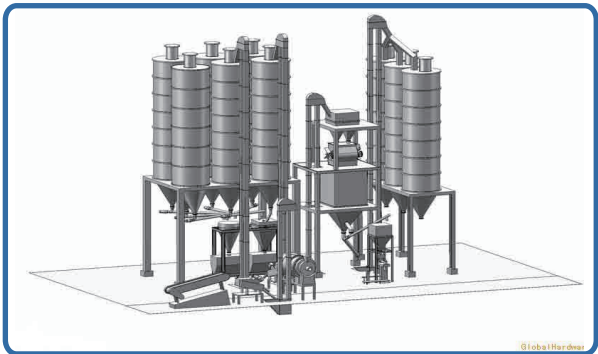
配料系统应用
Batching System



失重秤系统应用
Constant feeding weigher system



灌装系统应用
Application in filling system



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
ST550D	1: 导轨 1: DIN	0: 无 0: None	0: 无 0: None 1: 8IN/8OUT输入输出 1: 8IN/8OUT 2: 模拟量 2: Analog 3: 模拟量+2IN4OUT 3: Analog+2IN4OUT 4: Profibus-DP 4: Profibus-DP 5: Ethernet 5: Ethernet	1: 灌装 1: Filling 2: 包装 2: Packing 3: 配料 3: Batching 4: 检重 4: Check weighing 7: Ethernet/IP 7: Ethernet/IP 8: Modbus-TCP 8: Modbus-TCP	0: 中文 0: Chinese 1: 英语 1: English

常州市灵衡仪器有限公司
Flex Weighing Instrument Co.Ltd

常州市龙城大道2188号新闻工业园15幢
Tel: 0519-88804550
Address: Building 15, Xinzha Industrial Park
#2188 Longcheng Ave. Changzhou, Jiangsu

Zip: 213012
Fax: 0519-88804537
E-mail:sales@linwt.com
Http://www.linwt.com