

SOLID FLOW METER 智能流量计



物料精准处理系统专家

Expert In Precise
Material Handling Systems

Overview

概述

智能固体流量计一种连续式计量设备，用于连续测量通过的固体颗粒或粉末的质量流量。可应用于筒仓及车间的原料及成品计量中，设备高度结构紧凑，方便工艺设计。

Solid Flow meter is a continuous measurement device used to the mass flow of passing solid particles or powders. It can be used in the measurement of raw materials and finished products in silos and workshops. The height of the equipment is compact, which is convenient for process design.



Product Features

产品特点

适用范围广

适用于多种物料，多种工况

Wide range of applications

Applicable to a variety of materials and working conditions

可靠稳定性

整机几乎无运动部件，工作稳定可靠

Reliable and stable

The whole machine has almost no moving parts and works stably and reliably

简单化

结构简单、拆装简单、操作简单、维护简单

Simplify

Simple structure easy; assembly and disassembly, operation and maintenance

高计量精度

自研专用控制系统，优化算法程序，确保计量精准

自动在线实时校秤，避免累积误差

定时喷吹清理，避免累积误差

High metering accuracy

Self-developed special control system, optimized algorithm program, ensure accurate

Measurements by automatic online real-time calibration to avoid cumulative errors

Timed spray cleaning to avoid material accumulation errors

应用于塑料、化工、饲料

Used in plastics, chemicals, feed, c

Application Industry

应用行业



料、水泥、煤、玻璃、谷物等行业。
ement, coal, glass, grain and other
industries.





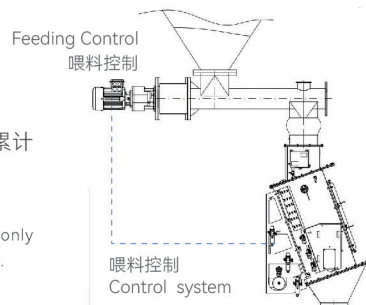
er and plastic industry



等行业
And other industries.....

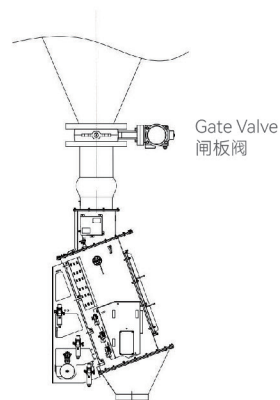
测量设备一端是螺旋喂料机，只输出流量值和累计值作为反馈信号。

Measuring equipment - Screw feeder or screw conveyer, which only outputs flow value and cumulative value is used as a feedback signals.



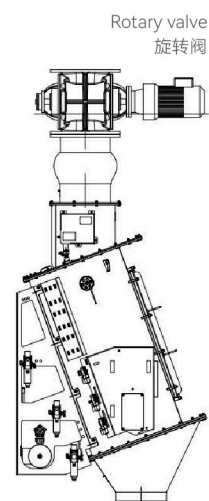
批量配料一和插板阀联动 根据累计值输出一个开关信号来控制上游通断。

Batch distribution - linked with gate valve, output a switch signal according to the accumulated value to control the upstream equipment on and off.



喂料称一端是旋转阀，下端是主机等需要双重闭环控制的机器，通过实时流量来调节旋转阀转速，此情况大多是由 PLC 来接收流量数据（485/ 模拟量输出 模拟量上下限值对应流量为客户自己设定）和主机压力值比较后 PID 调节旋转阀。

Feeding scale - rotary valve feeding the system with host machine and other equipment that require double closed-loop control. The rotary valve speed is adjusted by real-time flow. In this case, the PLC receives the flow data (485/analog output, the upper and lower limits of the analog value corresponding to the flow are set by the customer) and compares it with the host pressure value, and then PID adjusts the rotary valve.



Product Specifications

产品规格

系列SERIES	TGTC275-A	TGTC275-B	TGTC275-C	TGTC350-A	TGTC350-B	TGTC350-C
外形尺寸（长×宽×高，mm） Overall dimensions (length x width x height, mm)	914×746×1513			1314×992×2201		
计量精度 Measuring accuracy	±0.5% to ±1%					
产能 Capacity (t/h)	2 ~ 15	3.5 ~ 25	5 ~ 36	5 ~ 36	10 ~ 90	15 ~ 120
产能（m³/h） Capacity (m³/h)	3.3~25	5.8~42	8.3~60	8.3~60	16~150	25~200
材质 Material of construction	316L/304					
电源（V） Power supply	DC 24					
物料温度范围 Material temperature range	0-50					
噪声等级（dB） Noise Level (dB)	< 70					
防爆要求 Explosion-proof requirements	IIC+IIIC/IIIC					

注：1、根据工作范围的不同，有三种不同尺寸的测量通道(A, B或C)可供选择;
2、本文件所述内容仅用于参考，实际产品参数请咨询灵鸽科技根据具体设计方案而定。

Note:1、 Depending on the working range, there are three different sizes of measuring channels (A, B or C) to choose from;
2、 The contents of this document are for reference only. Please consult Lingood Technology for actual product parameters based on the specific design plan.



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