T3

T3 Dust–Proof Weighing Indicator

Introduction

Utilizing a reliable new hardware core, the T3 terminal makes use of Transcell Technology's proprietary digital signal processing technology to quickly obtain high resolution weight data.

The T3 can be employed for use in a wide range of industries including food, chemical, medical, iron & steel manufacturing and agriculture. Its robust design and high accuracy make the T3 ideal for use in harsh industrial environments.

Significantly improved performance and a variety of interface options make the T3 unbeatable for accurate and efficient process control.
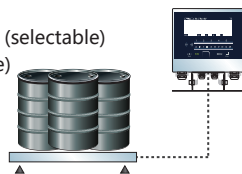
Features

- Heavy duty (designed for harsh environments)
- MODBUS industrial Fieldbus protocols supported, multiple communication format supported
- Powerful noise immunity results in higher weighing accuracy
- Simple and flexible integrated control functionality
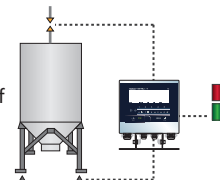
Control applications

Weighing

- Displayed graduations: 600 to 10,000 (selectable)
- Sampling rate: 10 to 80 Hz (selectable)
- Four or Six Order Dynamic Weight Filtering
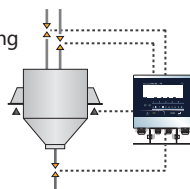- Remote or local zero, tare and calibration function

High/Low Alarm

- Set high/low alarm values via keypad
- Relays can drive DC or AC loads
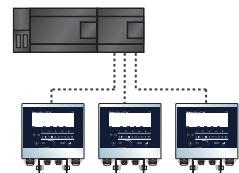- Relay output can be used for control of feeding valve

Batching system with discharge

- Supports fixed value feeding and discharging
- Two set points (via keyboard)
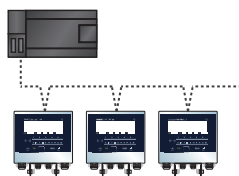- Manually select material type
- Internal relay control

Analog Output

- 4-20 mA output
- 16-bit D-to-A conversion (1/32767)
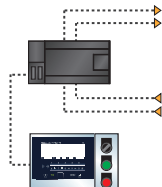- Fully adjustable via front keypad

RS–485 serial bus communication

- Baud rate: 2400 to 25600 bps (selectable)
- Communication response time < 5 ms
- Indicator always used as a slave
- Supports MODBUS RTU slave protocol

Point–to–Point Communication with a PLC

- T3 combined with a PLC can become a small control system
- T3 can exchange data with a PLC via RS-485
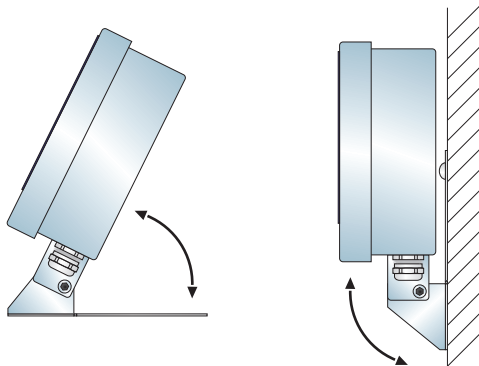- User can define the serial data format

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Specifications

Dimensions（WxHxD）	180x220x80(mm)	Filtering	Built-in six-order dynamic filtering algorithm
Housing	SS304 stainless steel	Excitation	+4.5 VDC
Installation	Wall mount, desk mount, column mount, arm support mount	Display	LCD display with LED backlight
		Keypad	4 function keys and 10 numeric keys, easy to operate
Protection Level	IP67		
Interface	Drives up to 4 – 350Ω load cells, or equivalent parallel resistance>87Ω	Serial Interfaces	RS-485 standard, RS-232 optional
		Power	86VAC~264VAC,50~60HZ,300mA
Display Division	1,000~10,000	Operating Temperature	-10℃ to 45℃ , 10% to 90%RH,non-condensing
Sampling rate	10 to 80 Hz (selectable)	Storage Temperature	-10℃ to 45℃ , 10% to 90%RH,non-condensing

Product model matrix

Model	Part NO.	Description
T3-2000	107200040	Industrial weight terminal, RS485 interface
T3-2820	107270060	Industrial weight terminal, RS485/232 interface, 4~20mA analog output, two relay output controls

Installation

Dimensions