

T831 Industrial Weighing Indicator



Introduction

Compared to the weighing precision of typical weighing indicators, the high precision and outstanding electromagnetic compatibility of the T831 weighing terminal enable it to better fulfill measurement and control applications in harsh industrial environments. Thanks to its SMT design, the T831 weighing terminal consumes less power and is more compact, allowing it to be panel mounted into a control cabinet.

From an analog output to industrial Fieldbus to Ethernet, the T831 provides a wide variety of interface options. It can seamlessly connect with many types of PC's, PLC's, and DC's. Its digital communication interface provides direct, high-speed control for a variety of applications such as packaging, filling, dynamic weighing and discharging.

The T831 can be transparently controlled by a PLC or a PC for remote configuration and calibration. Its six-wire load cell interface compensates for signal loss due to long cable runs (up to 300m).

Features

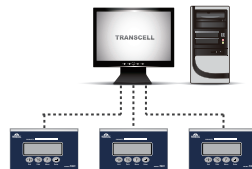
- Compact / low cost
- Multiple control modes
- Many reliable data interfaces are supported
- Quality assured with Transcell's advanced manufacturing technology

- F.I.R. Digital Band Filter
- ARM DSP
- Fast A/D Conversion up to 1000Hz
- Super Bright OLED Display - No High / Low Temperature Blackout
- Wide Range of Optional Communication Boards

Applications

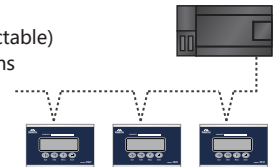
RS-232 serial communication

- Continuous or demand output formats
- Popular communication protocol is supported
- Remote zero and tare functions are supported
- All interfaces feature ESD protection



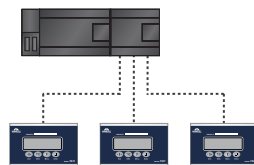
RS-485 serial bus communication

- Baud rate: 2400 to 115200 bps (selectable)
- Communication response time < 5 ms
- Indicator always used as a slave
- Supports MODBUS RTU slave protocol



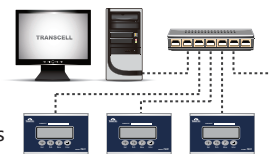
Analog Output

- Support multiple analog output, such as 0~10V, 0~5V, 4~20mA, 0~24mA multiple output formats
- 16-bit D to A conversion (1/32767)
- Fully adjustable via front keypad



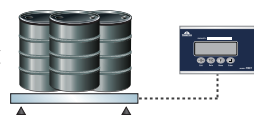
10/100M Industrial Ethernet Interface

- Connect with PC or PLC through network switch
- Standard RJ45 interface, with internet status indication
- Communication speed 10/100, supports multiple sub stations
- Simple, easy-to-use TCP/UDP protocol



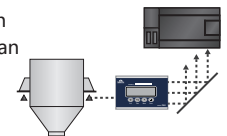
Weighing

- Displayed graduations: 100 to 100,000 (selectable)
- AD sampling frequency of 10~1000HZ can be set, a variety of data filtering options can be selected to meet the dynamic / static requirements of different applications
- Remote or local zero, tare and calibration function



Set Point outputs

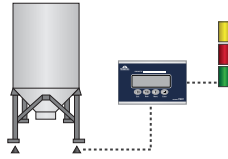
- AD sampling frequency of 10~1000HZ can be set, a variety of data filtering options can be selected to meet the dynamic / static requirements of different applications
- Set point output thru internal relays
- Set point is defined as the result of a preset value compared to the displayed weight



T831 Industrial Weighing Indicator

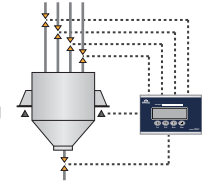
High/Low Alarm

- Set high high/high/low/low low values via keypad
- Internal relays can control the output warning signal
- Supports Silo material filling
- Some models only support 3 alarm points



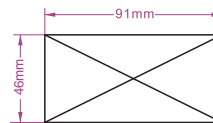
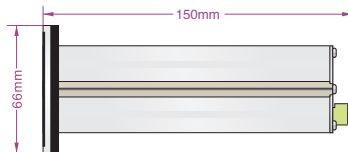
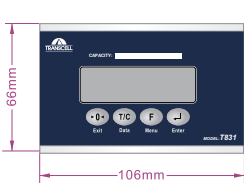
Simple fixed value and feeding control automatically

- Supports fixed value feeding and discharging
- Two set points (via keyboard)
- Manually select material type
- Internal relay control
- Supports fully automatic or semi-automatic batching of up to four types of material
- Choose single or double speed control for each kind of material
- Automatically adjusts the feeding and discharging material resolution
- Manually set input/output control function



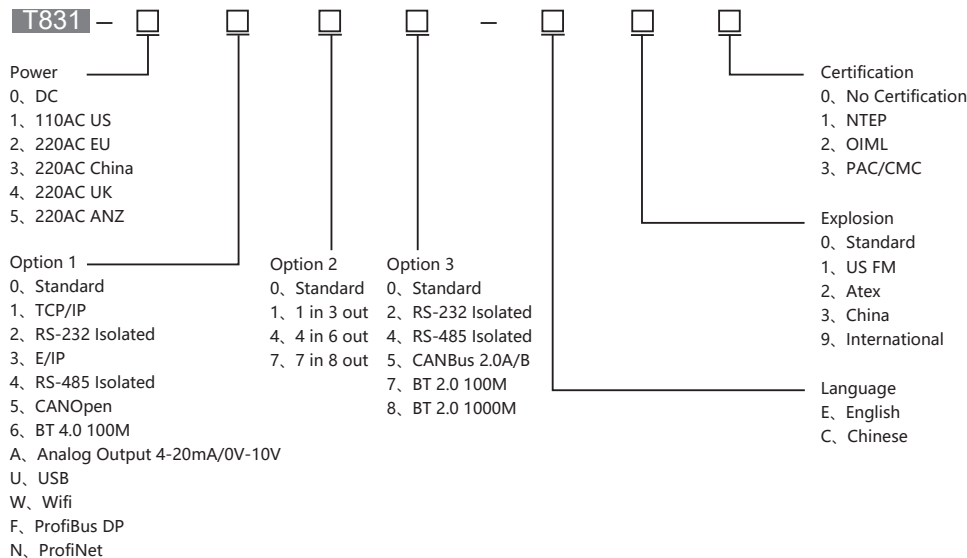
Specifications			
Housing	Rear cover: SS304 stainless steel / Front housing: Aluminum Extrusion	Filtering	Built-in six-order dynamic filtering algorithm
Installation	Face-Plate mounting	Display	128*32dots OLED dot matrix display, the font size of weight display is 9.5mm (H) *6.5mm (W)
Interface	Drives up to 4 – 350Ω load cells, or equivalent parallel resistance>87Ω	Keypad	4 function keys
Display Division	100~100,000, Up to 10 degrees	Serial Interfaces	USB 2.0 standard, RS-232 or RS-485 optional
AD Simpling rate	10~1000Hz, selectable	Power	Ac 86VAC~264VAC @50/60hz power supply, or dc 12VDC, 24VDC power supply
Excitation	+4.5 VDC, 100mA	Operating Temperature	-10°C~45°C , 10%~90%RH,non-condensing
Indicator max power consumption	5W	Storage Temperature	-10°C~45°C , 10%~90%RH,non-condensing

Dimensions



Size of cabinet opening during the process of panel mounting

Ordering Code



Note: 1or F or N in Option 1 and Option 2, 4 and 7 are not compatible