

## T7 High Performance Weighing Indicator



### Features

- Suitable for harsh environments
- Multiple industrial Fieldbus protocols supported

#### ► Higher Accuracy

The newly designed T7 can not only meet Class III trade accuracy (1/3,000), it can achieve 1/10,000 display resolution to support your industrial process control requirements.

#### ► Faster Speed

The T7's high-speed signal processing can obtain weight data in real-time; this means that your material's change in weight will be transferred to your actuators (e.g. valves) within a few milliseconds. The result is a reduction in dynamic accuracy due to latency.

Enhanced digital filtering means faster response times, even when the scale is bolted to a mixer or agitator. Analog to digital weight conversions are performed at more than 300 times a second, assuring fast availability of weight information.

With the help of industrial Fieldbus and Ethernet communications, the T7 can exchange data instantly with your industrial system or company network.

By utilizing a 32-bit ARM CPU, the T7 weighing terminal operates with unprecedented speed.

### Introduction

The T7 weighing terminal helps users achieve project cycles in the shortest time possible by cutting production costs and establishing a more efficient & flexible production process.

Unlike traditional products, the T7 is designed for industrial process control applications. Its high speed, high accuracy weighing performance combined with its industrial network support allows the T7 to be fully integrated with your control systems, manufacturing systems and resource management systems.

The T7 based industrial weighing and process control solution can make your filling, packaging and batching applications become faster, more accurate and more powerful.

- Powerful noise rejection with excellent weighing accuracy
- Simple and flexible integrated control functionality

#### ► More Applications

The T7's graphic Vacuum Fluorescent Display (VFD), with its wide temperature range and high brightness & contrast, allows the T7 to be used in harsh industrial environments. The soft menu keys and numeric keypad make data entry a snap.

Users can configure their own screen on the T7, including the status bar, variable data, characters, device flow charts and animation. You can even display information from a PLC / PC to create your very own user interface. Similarly, you can also create your own print format templates.

You will find the process control function you need in the T7: packaging, filling, discharging, dynamic weighing and real-time testing applications are all there.

### Control applications

#### High Accuracy Weighing

- Displayed graduations: 600 to 10,000 (selectable)
- Sampling rate: 10 to 400 Hz (selectable)
- Four or Six Order Dynamic Weight Filtering
- Remote or local zero, tare and calibration function



#### Material in and out Warehouse Management

- Supports two types of methods: weighing and piece counting
- Can interface with a barcode scanner to read item number
- Supports label printing
- Online or offline data exchange with database (such as SQL) of warehouse management system (WMS) or industrial communication network



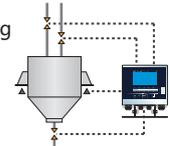
#### Continuous Flow Control

- Transmits real-time flow rate signal based on material weight change
- Output signal can be 4-20 mA or MODBUS
- Controls speed of the feed motor
- Uses 4-20 mA to a frequency converter



#### Fixed Value Feeding and discharging

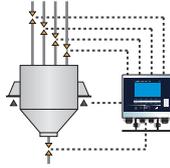
- Supports fixed value feeding and discharging control
- Multiple target value storage
- Automatic loss in weight correction, self-learning adjustment



## T7 High Performance Weighing Indicator

### Multiple Material Batching

- Set formula (recipe) by industrial bus or keypad
- Can choose single-speed or double-speed control for each batching material
- Automatic correction to the accuracy of feeding and discharging
- Multiple groups can work together



### Your Applications...

- Flexible user development functionality
- Quick support of your specific application
- Standardized application-specific solutions

### Specifications

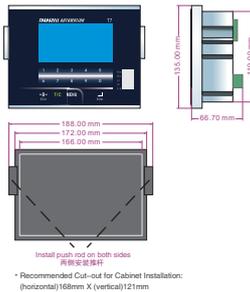
Dimensions ( WxHxD )	Dust-proof Type: 180x220x80(mm)/ Panel Mount Type: 172x135x46(mm)	Filtering	Built-in six-order dynamic filtering algorithm
Housing	Dust-proof Type: SS304 stainless steel/ Panel Mount Type: aluminum, rear cover-stainless steel	Excitation	+ 10 VDC
		Display	256X64 fluorescent graphic display
Installation	Wall mount, desk mount, column mount, arm support mount	Keypad	4 function keys and 10 numeric keys, easy to operate
		Serial Interfaces	RS-485 standard, isolated RS-232 optional
Protection Level	IP67	Power	86VAC~264VAC, 50~60HZ, 300mA
Interface	Drives up to 4 – 350Ω load cells, or equivalent parallel resistance > 35Ω	Operating Temperature	-10°C~45°C , 10%~90%RH, non-condensing
		Storage Temperature	-10°C~45°C , 10%~90%RH, non-condensing
Display Division	1,000~10,000	AD Converting rate/ Sampling rate	Internal converting rate: 300 times/sec, Sampling rate: 10~80 times/sec (option)

### Product model matrix

Model	Part NO.	Description
T7-1000	107276110	High performance weighing terminal, T7, Panel Mount Type, with two isolated RS-232
T7-1820	107276150	High performance weighing terminal, T7, Panel Mount Type, with 1-input 3-output interface, 4~20mA anal output
T7-1920	107276160	High performance weighing terminal, T7, Panel Mount Type, ProfiBus, with 1-input 3-output interface
T7-2000	107276210	High performance weighing terminal, T7, dust-proof type, with two isolated RS-232
T7-2120	107276170	High performance weighing terminal, T7, dust-proof type, with isolated RS-485 interface, with 1-in 3-out interface

### Dimensions

#### Dimensions of Panel type & Cut-size of Cabinet Installation

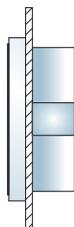


#### Dust-proof type



### Installation

#### Panel-type Installation



#### Optional bracket parts for desk/wall type installation

