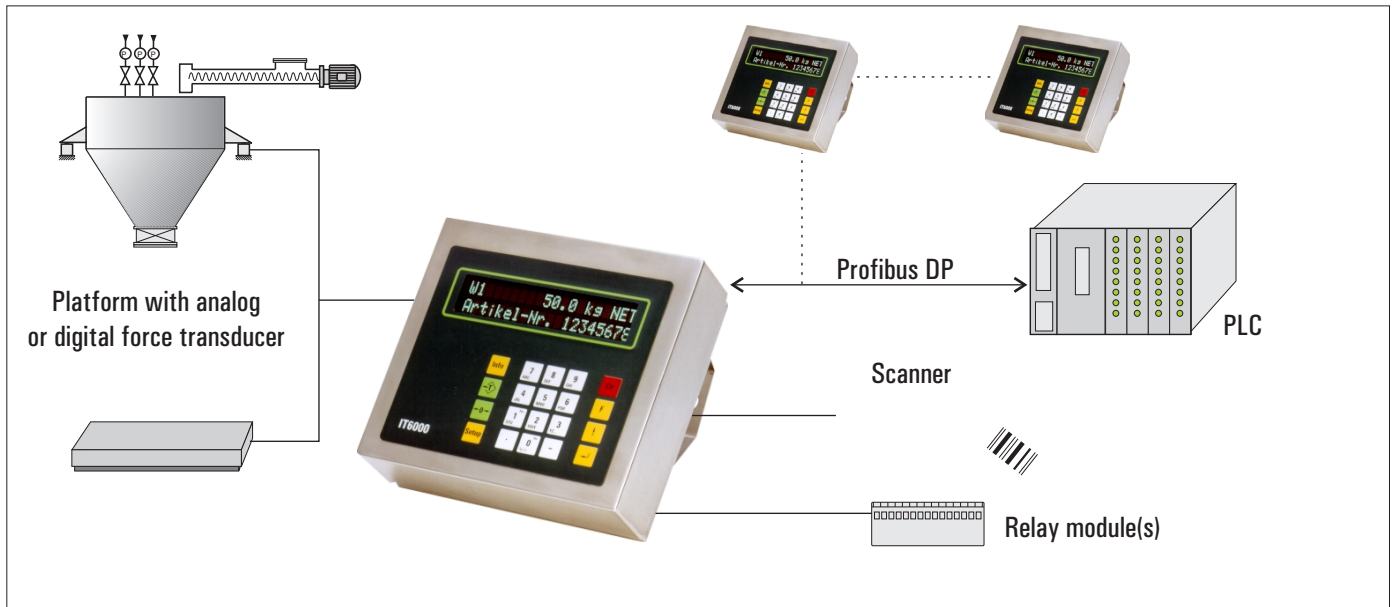


Fieldbus controlled Weighing Terminal, Weights and Measures approved, for the capture of weight and operational data and automatic filling



IT6000P is an industrial weighing terminal with Profibus DP fieldbus interface for the integration in decentralized control systems.

The **IT6000P** terminal provides a very simple way to combine the weighing application on process level with the control functions of a PLC and/or visualization system on a higher level. In this configuration the PLC is always in full control of the complete process.

Together with other fieldbus participants up to 126 devices can be connected via a bus cable.

Housed in a **compact and robust stainless steel desk-top / wall-mount enclosure (IP65)** the **IT6000P** enables the data capture, display and recording of weighing and associated operational data **direct in harsh environment weighing locations**.

Alternatively a panel-mount version is available.

One scale of any type can be connected to the terminal, eg hopper or floor scale or roller conveyor on loadcells, etc.

High resolution and fast signal processing of the **IT6000P** enables rapid and precise weight measurements and fillings.

The communication between PLC and **IT6000P** is made in both directions via the exchange of data words. Weight values, entries, status messages and digital inputs can be read by the PLC from the corresponding data words. In the other direction the following functions, among others, can be controlled by the PLC:

- Batching (weigh-in or weigh-out)
- Taring / Clear tare / Set zero
- Display text
- Enter data
- Set digital outputs.

Fieldbus terminal:

IT6000P enables the simple connection of a weighing terminal / batching controller to a PLC for process control and visualization.

The terminal is connected and configured via Profibus DP fieldbus. The network communication automatically updates specified data words of the network participants. Commands and information are exchanged through writing and reading of these data words.

The host system is always in full control of the operating sequence.

The following example shows how a PLC controls the automatic batching into a hopper scale:

- The PLC writes the data words for target weight, preact and tolerance
- The PLC sets the command bit 'Start Filling'
- IT6000P controls the automatic batching, optimizes the preact and writes the actual weight into the data word 'Filling Quantity'
- IT6000P sets the status bit 'Filling Ready'.

Operation:

- Clear operator prompting via 2-line 20-character high-contrast display. Data entry is via numeric tactile acid-resistant membrane keyboard, alphanumeric entries via multiple key assignment.
- ASCII texts as operator prompts can be written into the dual line display.

Technical features:

Commands:

- Read weight with or without motion detector
- Batching (weigh-in or weigh-out)
- Manual tare
- Auto-tare
- Set zero
- Display text
- Operator prompt with input
- Read digital input
- Set / reset digital output.

Weighing electronics:

- Integrated signal amplifier for connection of up to 8 strain gauge loadcells using 4- or 6-wire technology
- Calibration as single or multiple-range and as single or multi-interval scale
- Weights and Measures approved resolution of 6,000d with a maximum preload of 80%, 524,000d internal resolution
- 33 filtered updates / sec.

Data archive:

Weights and Measures approved data archive for the storage of gross and net weights for later audits (capacity up to 450,000 entries).

Security:

- Data is retained in the event of power loss
- Password protection
- Battery-backed realtime clock.

Interfaces:

2 interfaces (1x RS232, 1x RS485) to connect to scanner, relay module or other terminals.

Fieldbus interface:

- Profibus DP (12 MBit).

Parallel interfaces:

- External relay or transistor module with max. 64 opto-isolated inputs and 64 opto-isolated outputs (24V / 3A); connection via RS485.

Enclosures:

- Compact IP65 stainless steel enclosure for desk or wall mounting
- Panel-mount enclosure, fascia plate protection to IP65.

Electrical connection:

110 (-15%) – 240 (+10%) VAC, wide range input, 50/60 Hz, power consumption max. 20 VA; Option: 12 – 30VDC.

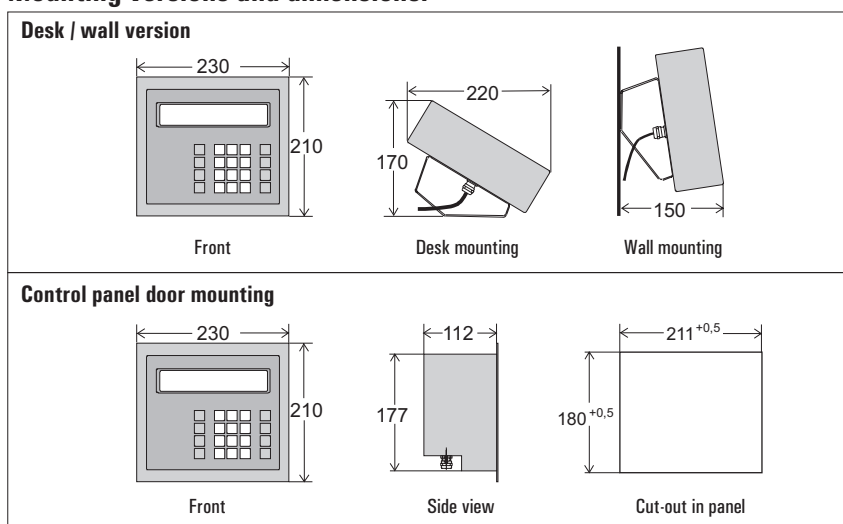
Operating temperature:

-10°C to +40°C, 95% relative humidity, non-condensing.

Ex-version (option):

Model IT6000 Ex2/22 with ATEX approval for use in Ex-zone 2 (gas) (II 3G EEx nA IIC T4) and Ex-zone 22 (non-conductive dust) (II 3D IP65 T 70°C).

Mounting versions and dimensions:



CE IT6000P conforms to:
EN 45501, EN 50081-1,
EN 50082-1, EN 60950

EC-approval as non-automatic scale