JEM INTERNATIONAL INC.

EQUIPMENT SALES | PARTS | MANUFACTURING

SMNW FALCON Small Net Weigh Bagging Scale

The SMNW FALCON is a high speed net weigh bagging system designed for small bag and container weights from 1 lb to 20 lbs. (1/2 – 10 kg). The scale includes a gravity gate feeder with pantleg diverter to an Eriez electromagnetic vibratory pan feeder.

The system includes your choice of a .4 or 1.0 cubic foot capacity weigh hopper and lower product transition. Various spout types and spout sizes are available as well as an Auger feeder for flours, powders and other fluidic products. All systems include a single point compression load cell and digital controller package with memory retained recipe codes, JEM-Link data and troubleshooting connection and auto-jog feature. The scale is offered in Simplex-single head, Duplex-double head and a Triplex-triple head for your various production requirements

IT6000E

W&M Approved Weighing Terminal

For Gross and Net Weighing and Filling Applications

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IT6000E - For Gross and Net Weighing and Filling Applications

Stainless steel housing IP69K

Suitable for harsh environment weighing locations. With mounting brackets for desk-top or wall-mount installation. Integrated power supply unit, sealed cable glands for all cable connections.

Bright TFT color display

With wide viewing angle, large weight display and 4 to 8 input lines.

Simple and fast operation

Via integrated keyboard, function keys and soft keys, optional full-size PC keyboard (cable or Bluetooth).

Stationary or mobile use

With integrated 110 - 240VAC power supply unit or via external 12/24VDC battery.

Universal use

The W&M approved IT6000E is designed for demanding industrial applications in the chemical and pharmaceutical industry, in the food industry and in many other sectors of industry. The industrial design with the powerful modular hardware and the concept of free programmability make the IT6000E the ideal weighing terminal for standard or application-specific solutions, eg for:

- Shipping and receiving
- Filling of liquid and solid material
- Checkweighers
- Dynamic weighing and batching systems
- Vehicle weighing
- Mobile data capture systems.

Weighing electronics

1 or 2 internal scale interfaces possible. Adjustable update rate with up to 800 updates / second. High noise immunity of min. 10V/m against radio frequency interference .
W&M approved resolution of up to 6000d with max. 80% preload. Calibration is possible as single or multiple-range (eg 3x3000d) and as multi-interval scale.
Internal data archive for the storage of up to 120,000 weighing transactions.

Modular concept

The modular design provides for a variety of configurations and options, such as:

- Enclosures for wall-mount, desk-top or panel-mount installation
- DC or AC power supply
- Connection of scales with analog or digital force transducers
- 10/100 Mbps Ethernet interface with integrated web server, WLAN as option
- Integrated USB 2.0 host interface for printer, scanner and USB stick
- Up to 2 serial interfaces, RS232, RS485, RS422, 20mA CL selectable
- Flexible I/O concept for up to 64 inputs and outputs
- Analog I/Os, etc.

This ensures that the optimal system configuration can be chosen, for stationary as well as mobile use.

Free programmability

Standard programs can be adapted to the requirements of specific applications.

New programs can be designed and tested in a very simple way on a PC with the RTC program development environment.

Simple integration

The Linux based operating system with the integrated web server provides the ideal functionality for the integration of the IT6000E into local area networks.

WLAN communication and remote access via internet are also possible.

IT6000E - Technical Data

Weighing electronics
For the connection of max. 16 analog loadcells in 4- or 6-wire mode, W&M approved resolution of up to 6000d at a max. of 80% preload, internal resolution 524,000d, update rate selectable 50 - 800 updates / second, smallest loadcell signal 0.33µV/e. Optional connection of two scale bases via DUAL-ADM. Option: connection of scale platforms with digital force transducers.

Calibration
Cleartext operator prompting. Setup as single or multiple range scale with 1, 2 or 3 ranges or as multi-interval scale. Calibration with test weights or through entry of rated output of loadcell(s), option for the linearization of the load curve with up to 6 linearization points. Option to connect incline switch.

Electrical connection
110 (–15%) to 240 (+10%)VAC, 50/60Hz via integrated power supply, option: 12 – 30VDC, power consumption max. 20VA.

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

Display and keyboard
Bright, high-contrast 5.7" TFT color display, 320 x 240 pixel, with wide viewing angel, large weight display and 4 to 8 input lines. Programmable soft keys, numeric keyboard with multiple key assignment for the entry of alphanumeric data, function keys for zero setting and taring, plus application-specific function keys, connection of optional full-size keyboard via USB (cable or Bluetooth).

Serial interfaces
Up to 2 interfaces, selectable RS232, 20mA CL (passive), RS422 or RS485 for printer, precision scales, remote displays, transponder card readers, etc.

Parallel and analog I/Os
Up to 4 internal optoisolated inputs and outputs, 24VDC, or external relay / transistor module (64 inputs, 64 outputs max.). Internal 15-bit analog output, external module for up to 4 analog inputs / outputs as option.

Ethernet interface
10/100BASE-T Ethernet interface with integrated web server, WLAN as option, Modbus TCP Slave as option.

USB
USB 2.0 host interface with optional IP67 connector for PC keyboard, scanner or USB stick.

Security
Powerfail safe storage of data, password protection, battery-backed realtime clock, remote diagnosis over Ethernet / Internet possible.

CPU / operating system
32-bit ARM processor, 266MHz, 0.5MB data memory, expandable. Linux based realtime multitasking operating system.

Free programmability
Comprehensive, PC-based program development and test environment. Programming with RTC *WIN* in 'C' in compliance with WELMEC software guidelines. Complete software development and test / simulation possible on PC.

Options
RTC *WIN*
IT6000E programming environment.

PC *COM*+
Active X component for the communication with PC programs.

Ex2/22 version
for installation in Ex zones 2 and 22.

Construction/options:

Desk/wall version

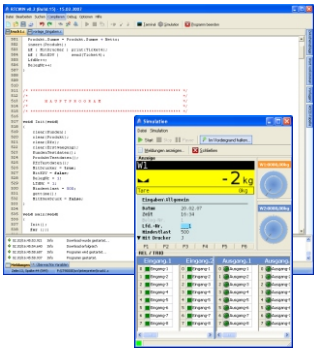

- Stainless steel housing, IP69K
- for desk-top or wall-mount installation or with optional column for floor mounting
- Dimension WxHxD: 330x229x134mm

Panel-mount version


- Stainless steel housing fascia plate protected to IP65
- Panel-mount installation
- Dimension WxHxD: 285x224x69mm
- Cutout in panel: 268x207mm

WLAN


- Option: WLX module to connect to WLAN networks (802.11b/g)
- Secure encryption selectable

RTC *WIN*


Directives: 2009/23/EC, 2004/108/EC, 2006/95/EC, 2004/22/EC

Standards: EN 45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, NAMUR NE21, EN 60950, OIML R51, OIML R61, OIML R107

EC approval as non-automatic weighing instrument, MID-approval as AGFI, checkweigher, automatic catchweighing instrument, weigh labeler, weigh-price labeler, discontinuous totalizer

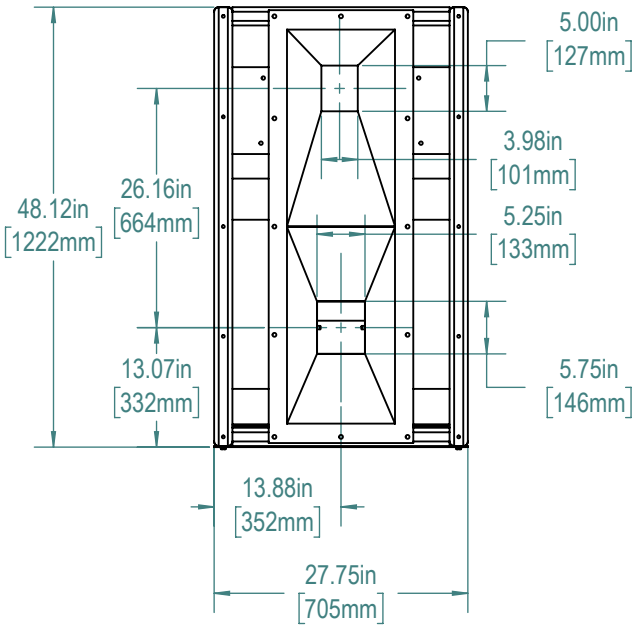
NTEP approval as indicating element

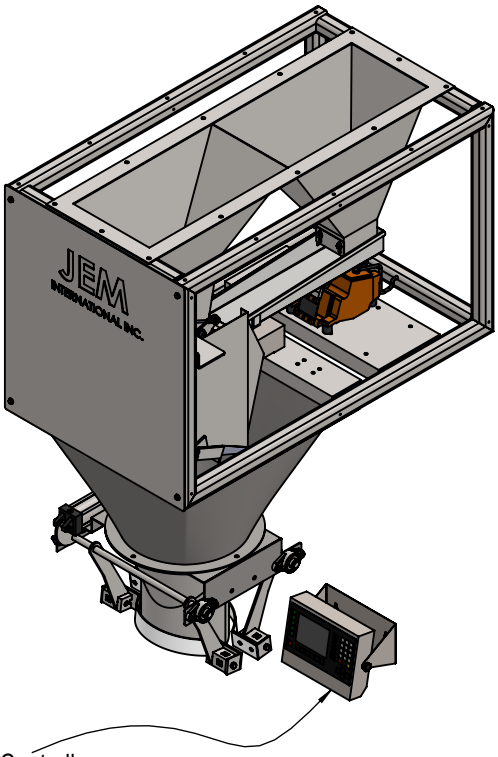
ETL certified in accordance with UL 60950-1 and CSA C22.2 No. 60950-1

EMI compliance with FCC Part 15

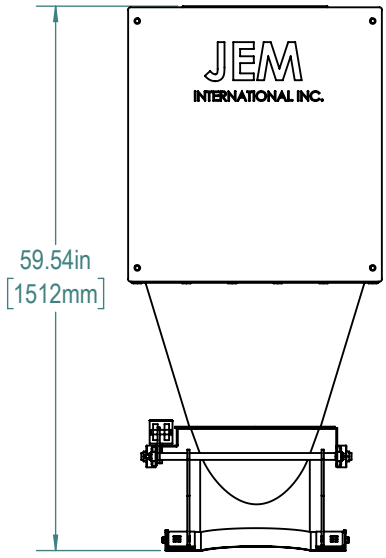
Mesures Canada: Approval as non automatic weighing instrument

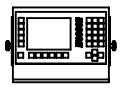
Ukraine: Approval as non-automatic weighing instrument

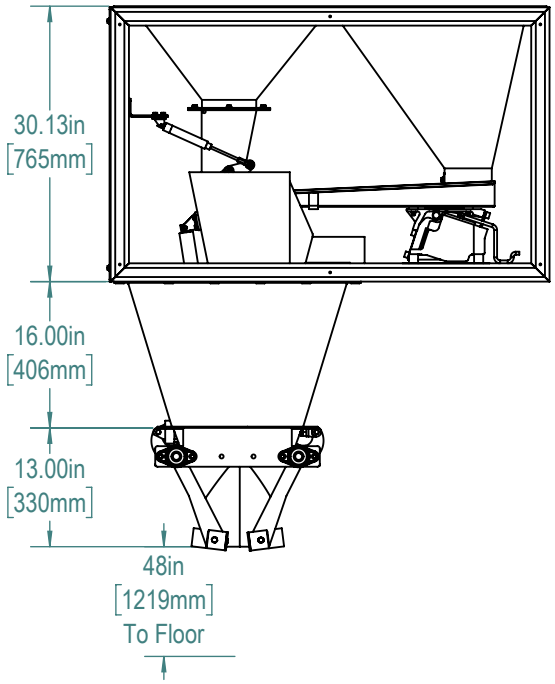




IT6000E Controller







Required Supplies
Electric : 110/220VAC-1Ph-50/60Hz-10FLA
Compressed Air : 3 *cfm* at 80 *psi*

Purpose
The purpose of this drawing is only for reference and a demonstration for a customer. Actual size may differ slightly.

Drawn : JK Date :8/5/2020 Rev : 01