

ST-Ex for Zone 1 & Zone 21 Hazardous Areas

- **Certified to ATEX 100a, II2G EEx ib m IIC T4, II2D T 100 C, suitable for gas and dust hazards**
- **Two weighing channels can be connected to a single ST-Ex plus a high precision balance**
- **Approved 'Legal-for-Trade' including 3 x 3,000 multi-range**
- **IP68 protected, stainless steel enclosure**
- **Large, easily visible back-lit LCD for weight and operator prompts**
- **Decimal keypad and programmable function keys for simple data entry and control**
- **A range of specialist application programs**



ST-Ex - field mounting enclosure

Model ST-Ex Weighing Terminal

The ST-Ex is certified according to the latest ATEX 100a directives for use in areas classified as hazardous due to the potential presence of explosive mixtures of air and gas or dust.

By employing modern protection technologies, the ST-Ex is simple to install without the inconvenience and cost of heavy flame-proof enclosures, remote power supplies, etc.

By adding hardware and software modules, the functionality of the ST-Ex can be extended to include batching, dosing, recording etc.

For filling and dosing applications, the EEx certified NAMUR outputs can be connected directly to suitable EEx solenoids to create a simple control system without any need for safe-area connections.



ST-Ex - alternative panel mounting enclosure

Connectivity and interfaces

The functionality of the ST-Ex can be enhanced by the addition of interface modules ...

- Additional analogue-to-digital converter. Two weighing channels can be connected to one ST-Ex. These can be a combination of bench scales, floor scales or weigh vessels
- A serial connection to a high-precision balance for weighing minor ingredients
- Up to two x analogue, 4 - 20 mA output
- Two channel TTY serial interfaces (RS232C with additional data buffer)
- Via safe-area data-buffer, a PC, printer or barcode scanner can be connected.
- One or two parallel interfaces each with four input and four output channels. Connections are DIN19234 (NAMUR) compatible.

Software options

The functionality of the ST-Ex can be further extended via built-in software options invoked by means of licenses. Some examples are ...

- Batching and dosing
- Drum filling with lance control
- Big-bag filling and discharge
- Printing and recording

TECHNICAL SPECIFICATION

Weighing performance

Analogue to

Digital Converter: One or two ADCs can be installed
ADC characteristics: To be confirmed

Operator interface

Display

Backlit 7-segment 18 mm LCD weight display Backlit 5 x 7 matrix 12 mm, 21-character display for operator prompts

Keypad

27 inscribed foil keys with mechanical feedback and audible input acknowledgement; 7 function-keys freely assignable with 'soft legends'

Approvals

CE marking:

Compliant with Euro-norms for EMC, Low Voltage Directive and the Non-Automatic Weighing Machine Directive

ATEX 100a directive: Gas .. IIG EEx ib m IIC T4
 Dust .. II2D T 100°C

Legal for trade: 3,000, 6,000 or 3 x 3,000 multi-range with suitable load cells

Power requirements

Power supply: 110 - 240 Vac, 50-60 Hz, max. 20 W
 24 V ac or dc
 12 Vdc accumulator

Power supply must be specified at time of order

Housing and environmental

Material: Stainless steel, brushed RA 2.5 µm for desktop, wall or stand mounting

Ingress protection: IP68

Temp.- operating: -10°C to +40°C

Temp.- storage: -30°C to +60°C

Options

Analogue option: One or two channels, 4 - 20 mA

Serial option: Two-channel asynchronous serial TTY (20 mA), TTY (10 mA), (RS232C available via safe-area data buffer), RS485 for Profibus FDL

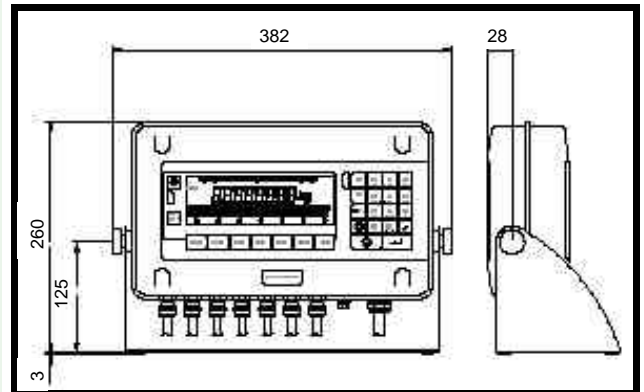
Parallel I/O option One or two x optically decoupled static input/output modules, each with 4 x inputs and 4 x outputs

Software options: Specialist programs for dosing, filling etc.

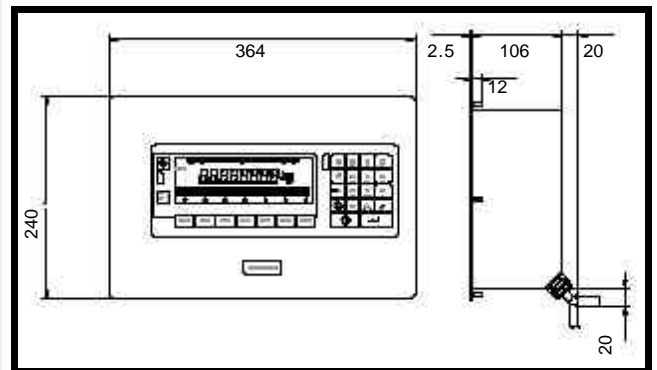
Note ... there are some limitations regarding combinations of hardware options

Nova Weigh's policy of constant product development dictates that we may alter specifications and or the appearance of our product range without notice.

DIMENSIONS (mm)



ST-Ex - field mounting enclosure



ST-Ex - panel mounting enclosure



NOVA WEIGH



Visit us on the web www.novaweigh.co.uk

BS EN ISO 9001:2000 Cert No: FM 11445

ST-Ex/06/04