

Model ST Digital Weighing Terminal

- Three weighing channels can be connected to a single ST plus a high precision balance
- Approved 'Legal-for-Trade' including 3 x 3,000 multi-range
- 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
- Interfaces for communication and control
- ST-Z2 version for Ex Zone 2 and Zone 22 as well as Model ST-B with built-in intrinsically safe isolator

Model ST Weighing Terminal

The Model ST is a high performance weighing instrument with applications in all industries.

Optional hardware and software modules extend the functionality of the ST to include batching, dosing, recording etc.

Connectivity and interfaces

Optional modules include ...

Additional analogue-to-digital converter. Three weighing channels can be connected to one ST. 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 outputs

Two channel serial interfaces (RS232C, RS422, RS485 and TTY)

Eight input and eight output parallel I/O

4MB and 8MB verifiable memory storage devices - these provide an audit trail for W&M approved weighing applications when used with computer system

These interfaces enable the interfacing of, for example, printers and barcode scanners.

The ST indicator can be networked using Ethernet, and Profibus FDL/DP protocols.



ST - alternative panel mounting enclosure

Special versions for Ex applications

Two versions of the ST are available for use with EX hazardous areas ...

The ST-Z2 model provides an economic solution for Zone 2 Gas Hazards and Zone 22 Dust Hazards

The ST-B has the same spec as the ST-Z2 but can be connected to load cells in a Zone 1 area

Note - the ST-Ex is described in a separate data sheet and is suitable for direct installation into Zone 1 Ex areas.

Software options

Special functions are enabled by means of licences. These include batching and dosing, filling systems with lance control, printing and recording etc.



ST - field mounting enclosure

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 plus 7 programmable 'soft' keys

Certification

CE marking:

EMC, Low Voltage Directive and the Non-Automatic Weighing Machine Directive

Legal for trade:

3,000, 6,000 or 3 x 3,000 multi-range with suitable load cells

ST-Z2 for Zone 2 and 22

ATEX certification: II 3 D,

T 80°C

II 3 G, EEx nA [L] IIC T4

ST-B

ATEX certification: As for ST-Z2 - also certification [EEx ib] IIC allowing connection of load cells in Zone 1 area

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:

Up to four serial interfaces RS232C, RS422/RS485 or 20 mA TTY

Protocol options:

Profibus FDL/DP, Ethernet

Parallel I/O option

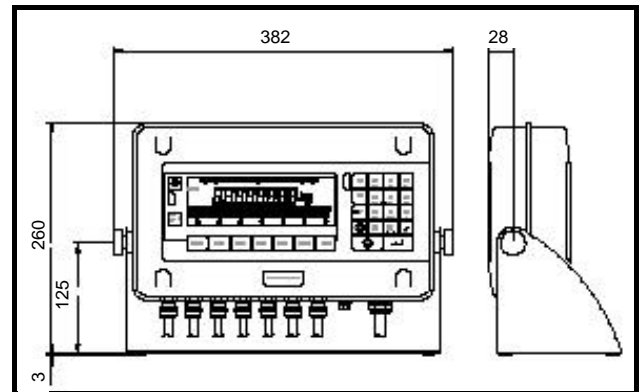
Eight optically decoupled static I/O

Software options:

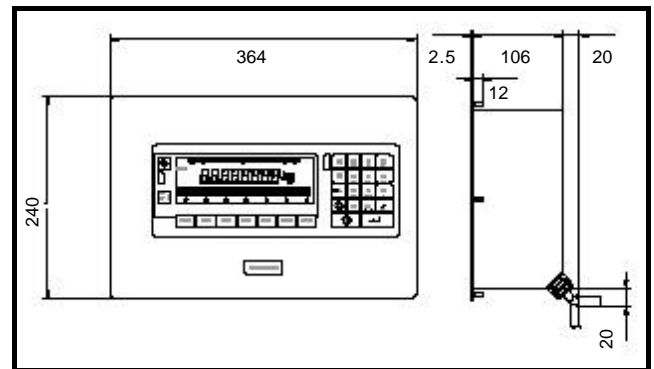
Specialist programs for dosing, filling etc.

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

DIMENSIONS (mm)



ST - field mounting enclosure



ST - panel mounting enclosure



NOVA WEIGH



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BS EN ISO 9001:2000 Cert No: FM 11445

ST/11/05