



BS311

Standard or custom made belt scale weigh frame "BS311" series, for conveyors



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The best solution
for advanced industrial
applications

MAIN ADVANTAGES

- MINIMUM MODIFICATIONS to the conveyor are required.
- STANDARD OR CUSTOMISED DIMENSIONS for any conveyor width, from 500 to 1200 mm.
- VERY ACCURATE: from 0,5 % of accuracy (*), MID approved
- SUITABLE FOR INCLINED BELTS up to 12 degrees(*)

(*) these features are strongly influenced by the mechanical quality of the conveyor structure, typology of the conveyed material, installation environment

FOR MORE INFORMATION

- Contact us at:



beltweighing@diniargeo.com

WEIGH FRAME TECHNICAL FEATURES

- Structure made in heavy powder coated steel, for harsh industrial environments (galvanised steel or stainless steel available upon request).
- 1 stainless steel load cell, made according to OIML R60 standards, with protection against dust and water splashes according to IP65 standards
- Load cell safety stops against overloads.
- Up to 15 Vdc power supply.
- Grounding system for load cell protection.
- Standard flow rate capacity up to 1500 t/h, higher capacities upon request.
- Maximum supported belt speed up to 2 m/s, higher capacities upon request.
- Maximum belt inclination up to 12 degrees, higher inclinations upon request.
- ATEX approved version for 21 or 22 zones upon request.

MICROCONTROLLER UNIT FEATURES

- High performance digital microcontroller with programmable inputs and outputs, fitted with 3 serial ports, transmissions protocols for data communication.
- The wide range of connectable fieldbus converters, accessories and printers guarantees the maximum interfaceability and versatility.

Mechanical Features:

- Waterproof 25-key numerical functional keyboard.
- Programmable function keys, for customising the keyboard functions according to the needs.
- Easy to consult backlit graphic LCD display, with a clear visualisation of the weight and wide range of information.
- Fitted with 3-way control light made up to synoptic bar-graph with 3 groups of 3 Leds each, to tolerance check and setpoint.
- IP68 stainless steel waterproof case, easy to clean and resistant in harsh and corrosive environments.
- Dimensions, including support bracket: 269x58,8x183mm.
- Suitable for use on the table, wall mounting or panel mounting.

Electrical Features:

- Real time clock and permanent data memory.
- Selection of the program language directly in the set-up.
- A/D 24 bit sigma-delta 4-channel conversion, up to 3200 conv./sec. with automatic selection. Filtering system through programmable software, 4th order.
- Calibration and Set-Up parameters, configurable from PC with Dinitools or with the keyboard; theoretical calibration with the entry of the character '0'.
- Up to 1.000.000d displayable for internal factory use.
- Up to 10.000e or multirange 3 x 3000e @ 0,3 $\mu\text{V/d}$ in CE-M approved version for legal for trade use.
- Internal resolution of up to 3.000.000 points.
- 230 Vac or 24 Vdc power supply, 16 VA power.
- 2 RS232 serial ports configurable for connection to printers, PC or PLC, radio modules or other external units.
- 1 RS232 serial port (optional RS485) configurable for connection to repeater, bar code reader, or digital load cells.
- 4 optoisolated outputs, up to 16 on request.
- 2 optoisolated inputs, up to 8 on request.
- Fieldbus interface (optional).
- Bluetooth connection, for quick wireless programming through PC (optional).
- Keyboard emulation input.

CONSULTING SERVICE

- If you need an help to select the most suitable bar for your application and verify the feasibility of the system, fill in the data request form, which is available on our website.
- This data request form, correctly filled in, can be analyzed from our technical department in order to find the best solutions for your application.







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SALES AND TECHNICAL ASSISTANCE SERVICE