

I 410 WBF power and regulation box for continuous dosing application



Use applications

The I 410 WBF command control and automatic regulation box allows monitoring a weigh belt feeder of any type: belt, screw or loss in weight. It can be adapted to a dual-channel version.

The front terminal is fitted with the I 410 WBF software that performs all product continuous and precise flow regulation functions.

Its main functions are:

- Weighing,
- Load preselection,
- Flow regulation,
- Printing on paper or virtual printer,
- Serial and/or field bus communication,
- Back-up on read-only memory (USB stick).

For further information, see the technical data sheet of the I 410 WBF application (ref.: 04-41-83-1 FT).

Applications

This box can be installed locally or up to 70 m from a feeder in any difficult environment, whether indoors or outdoors. For a great distance, the filtering box option will have to be included.

All the electrical parts of the IP66 housing are efficiently protected for use in any difficult activity sector such as:

- Mineral industry
- Chemical industry
- Extractive industry

General presentation

The box is made up of:

- ▼ A full bottom sheet including all the useful electrical components:
 - a 0.75 kW to 4 kW frequency inverter depending on the model,
 - two 25 A contactors,
 - a 3P 4, 10 or 14 A motor protection switch depending on the model,
 - 14 commutation relays,
 - a 2P 2 A circuit breaker,
 - a 24 VDC - 5 A - 120 W power supply,
 - a 2P 20 A command switch,
 - a NO 24 VDC 2 A three-contact safety relay ,
 - a set of detected junction boxes.
- ▼ A front panel door:
 - a panel-mounted I 410 terminal with digital keyboard including:
 - a USB module,
 - three 2I/60 digital modules ,
 - a 1E/2S 4-20 mA analogue module.
 - a 25 A three-phased lockable rotating selector-switch,
 - a mains supply indicator light,
 - a key activated emergency stop button,
 - a waterproof USB stick support,
 - command buttons to choose the operating mode,
 - a potentiometer to manually adjust the set point.
- ▼ A lower sheet equipped with 8 glands: 6 PG13 and 2 PG9.

Mechanical characteristics

- ▼ Steel single-block box.
- ▼ Steel door with cast polyurethane water seal on edges.
- ▼ IP 56 protection index.
- ▼ Box and door coating:
 - powder coating prepared by electrophoresis,
 - outdoors: RAL 7035 textured paint.
- ▼ Mounting sheet finish: electric zinc-coated.

Electrical characteristics

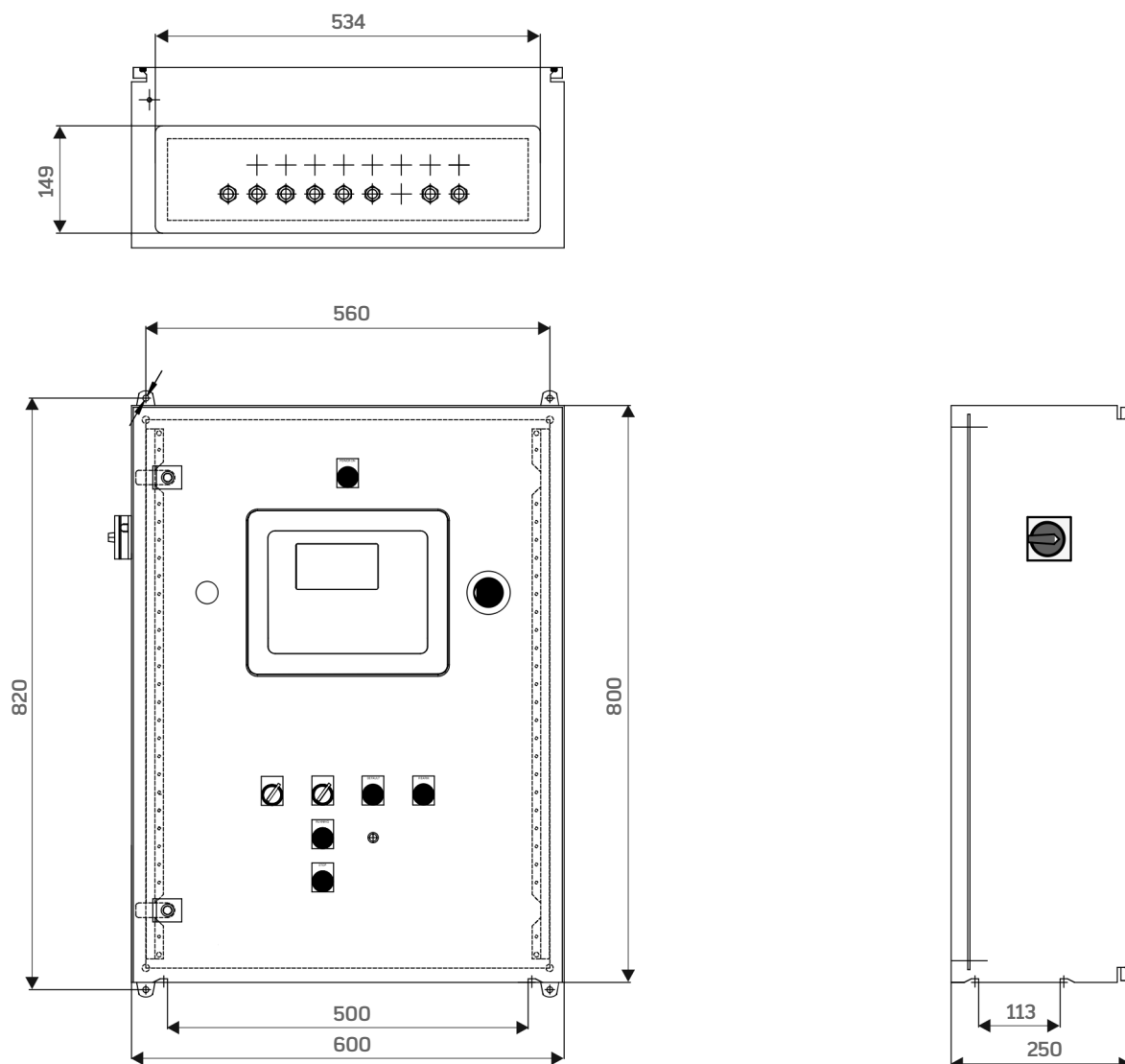
- ▼ Tension..... 380 - 500 V AC
- ▼ Power 12 kVA
- ▼ Frequency..... 50 / 60 Hz
- ▼ Short-circuit intensity..... ≤ 10 kA
- ▼ Earthing system..... TT / TN / IT

Conformity

- ▼ 2006/95/CE Low-Voltage Directive.
- ▼ 2004/108/CE Electromagnetic Compatibility Directive.

Dimensions

The box can be fitted with the four swivelling brackets that are supplied, or by using the four inside box holes (dimensions in mm).



Options & Accessories

- ▼ Ventilation box.
- ▼ Extra starts for:
 - forced motor ventilation for flow range > 1/10,
 - vibrating,
 - product feeler,
 - etc.

Your specialist

Non contractual illustrations. Precia-Molen reserves the right to modify at any time the characteristics of the equipment described in this brochure.

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