

EU Type Examination Certificate

No. 0200-NAWI-15342

ATP160

NON-AUTOMATIC WEIGHING INSTRUMENT

Issued by **FORCE Certification**
EU - Notified Body No. 0200

In accordance with the requirements in Directive 2014/31/EU of the European Parliament and Council.

Issued to **Xiamen ATP Technology Co., Ltd.**
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China

In respect of Non-automatic weighing instrument designated ATP160 with variants of modules of load receptors and load cells.
Accuracy class III, single-interval or multi-interval (dual)
Maximum capacity, Max: 3 kg to 30 kg
Verification scale interval: $e \geq 1$ g
Verification scale intervals: $n \leq 3000$ or $n_i \leq 2 \times 3000$
Variants of models are set out in the annex.

The conformity with the essential requirements in annex 1 of the Directive is met by the application of the European Standard EN 45501:2015 and of OIML R76:2006.

The principal characteristics and approval conditions are set out in the descriptive annex to this certificate.

The annex comprises 11 pages.

Issued on **2023-07-31**
Valid until **2033-07-31**

Descriptive annex

Contents		Page
1.	Name and type of instrument	2
2.	Description of the construction and function	2
2.1	Construction	2
2.2	Function	3
3.	Technical data	4
3.1	Load cell for scale	4
3.2	Documents	4
4.	Interfaces and peripheral equipment	5
4.1	Interfaces	5
4.2	Peripheral devices	5
5.	Approval conditions	5
5.1	Measurement functions other than non-automatic functions	5
6.	Special conditions for verification	5
7.	Securing and location of seals and verification marks	5
7.1	Securing and sealing	5
8.	Location of CE mark of conformity and inscriptions	6
8.1	Scale	6
9.	Pictures	7

1. Name and type of instrument

This instrument is designated ATP160 and is a Class III, mains-operated, self-indicating, price-computing, single or dual-interval, non-automatic weighing instruments.

The instrument is designed for direct sales to the public.

The name of the instruments may be followed by alphanumeric characters for technical, legally or commercial characterisation of the instrument.

The scales have either a vendor display mounted next to the keyboard and an additional customer display mounted in the rear (ATP160B model) or a pole with a vendor and a customer display mounted on each side (ATP160P model).

2. Description of the construction and function

2.1 Construction

The scales are housed in a plastic enclosure.

The have two LCD displays either mounted in front and rear or on a pole.

The display is a touch screen and functions as the keyboard for the scale. The user interface has several keys for operating and setting up the scale plus a numeric keyboard for calling up PLU's. PLU's can also be accessed by small icons on the touch screen.

The scale has an internal printer

Electronics

The instruments have the following printed circuit boards: a microprocessor-controlled mainboard which also contains the A/D circuitry and several PCB's for interfaces, displays and the printer.

All instrument calibration and metrological setup data are contained in non-volatile memory.

The scales use a load cell excitation voltage of 5 VDC.

2.2 Function

The primary functions provided are detailed below.

2.2.1 Power-up

On power-up, the scale will first perform a check of its integrity. After that the scales will establish the current weight as a new zero reference.

2.2.2 Display range

The scales will display weight from -Max (tare function) to Max (gross weight).

2.2.3 Zero-setting

Zero-setting range: $\leq 4\%$ of Max.

Automatic zero-tracking range: $\leq 4\%$ of Max.

Initial zero-setting range: $\leq 20\%$ of Max.

Zero-setting is only possible when the load receptor is not in motion.

2.2.3.1 Semi-automatic zero-setting

Pressing the “ZERO” key causes a new zero reference to be established and ZERO annunciator to turn on, indicating that the display is at the centre of zero.

2.2.3.2 Zero-tracking

The scales are equipped with a zero-tracking feature, which operates over a range of up to 4 % of Max and only when the scale is at gross zero and there is no motion in the weight display.

2.2.4 Tare

The instrument models are provided with a semi-automatic subtractive tare-weighing device.

2.2.4.1 Semi-automatic tare

Pressing the “TARE” key will enter the current weight value as the new tare weight value.

The weight display will automatically change to the net weight display mode and the tare value will be displayed.

This tare value can be cleared by pressing the TARE key, when there is no load on the load receptor.

This tare entry cannot take place, if the load receptor is in motion.

2.2.4.2 Preset tare

The scales have a preset tare function in connection with the PLU's.

2.2.5 Price Look Up (PLU)

The price computing scales can store several unit-price values. These are accessed using the numeric keyboard or the icons.

Access to editing them can be obtained using the PLU key and selecting products.

2.2.6 Totalisation

The scales have a totalization function for accumulating transactions.

All transactions and total are printed on the built-in printer.

2.2.7 Printing

The scales have a built-in printer, and printing takes place automatically or when the user press 'Print'.

The printing will not take place if the load receptor is not stable, if the gross weight is less than zero, or if the weight exceeds Max.

2.2.8 Operator information messages

The weight display can show a number of general and diagnostic messages, which are described in detail in the User's Manual.

2.2.9 Software version

The software version is shown at power up.

Approved software version is BJ_1.0.1.2f.

3. Technical data

The scales have the following characteristics:

Accuracy class:	III
Weighing range:	Single-interval or multi-interval (2 partial intervals)
Maximum number of Verification Scale Intervals:	≤ 3000 or 2×3000
Maximum capacity (Max):	3 kg to 30 kg
Minimum capacity (Min):	20 e
Verification Scale Interval (e):	≥ 2 g
Maximum tare effect:	$\leq -\text{Max}$ or $\leq -\text{Max}_1$
Mains power supply:	110/220 VAC 50/60Hz
Operational temperature:	-10°C to 40°C
Peripheral interface:	Set out in Section 4

3.1 Load cell for scale

Shanghai Yongheng CZL-A6J.

3.2 Documents

The documents filed at FORCE (reference No. 121-33865) are valid for the weighing instruments described here.

4. Interfaces and peripheral equipment

4.1 Interfaces

The instrument may have the following interface type:

- RS232C
- Cash drawer
- Ethernet
- Wireless LAN
- USB

4.2 Peripheral devices

The instruments may be connected to any simple peripheral with a CE mark of conformity using a screened cable.

5. Approval conditions

5.1 Measurement functions other than non-automatic functions

Measurement functions that will enable the use of the instrument as an automatic weighing instrument are not covered by this type approval.

6. Special conditions for verification

None.

7. Securing and location of seals and verification marks

7.1 Securing and sealing

Seals shall bear the mark of the manufacturer or alternative verification mark of a notified body according to ANNEX II, module D or F of Directive 2014/31/EU.

7.1.1 Scale

Access to the configuration and calibration facility is achieved by pressing a calibration switch accessed through a hole in the bottom of the enclosure of the scale.

Sealing of the access to the calibration switch, electronics and connection of the load cell is accomplished by a plate covering access to the switch.

The cover is sealed with wire and seal which at the same time seal the access to the calibration switch and the inside of the enclosure containing the electronics and the connection of the load cell to the electronics.

8. Location of CE mark of conformity and inscriptions

8.1 Scale

8.1.1 CE mark

CE mark and supplementary metrological marking shall be applied to the scale according to article 16 of Directive 2014/31/EU.

8.1.2 Inscriptions

Located near or shown in the display(s): Max_i , Min , $e_i =$

On a data plate located visible on the scale enclosure:

- Manufacturer's trademark and/or name
- Manufacturers postal address
- Model / type designation
- Serial number
- Accuracy class
- Max_i , Min , $e_i =$
- Maximum tare ($T =$)
- Type examination certificate number
- Electrical data and other inscriptions (optional).

9. Pictures



Figure 1 ATP160 with rear display – front view



Figure 2 ATP160 with rear display – rear view.

DB-500B

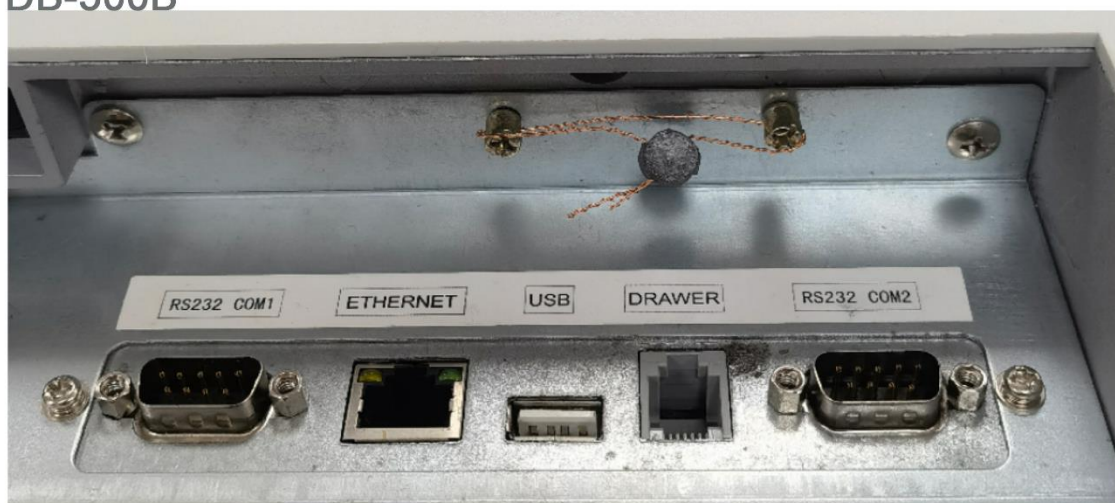


Figure 3 ATP160B Sealing method.



ATP160XX

Figure 3 ATP160 with pole displays - front view



ATP160XX

Figure 4 ATP160 with pole displays - rear view.

DB-500P

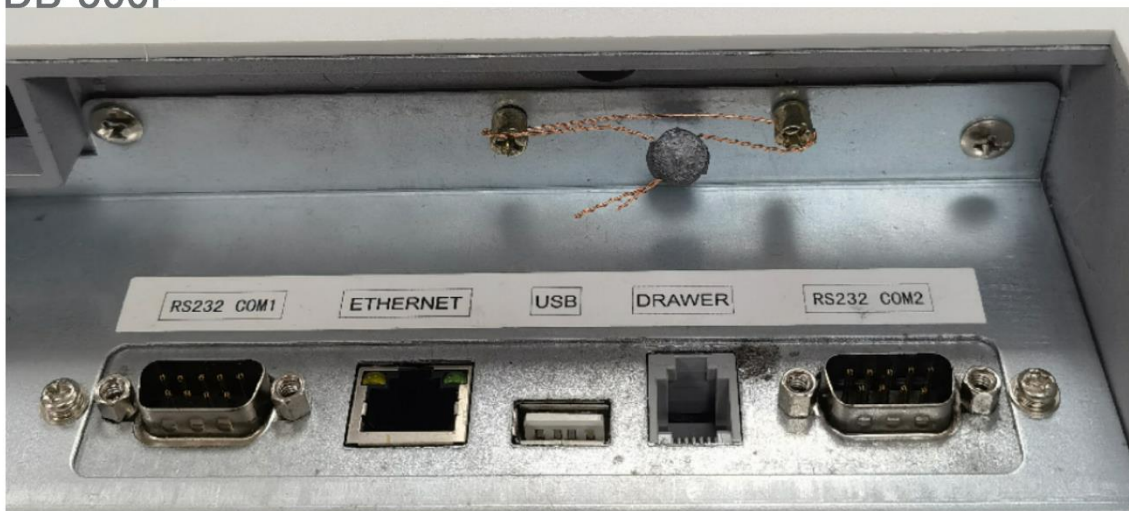


Figure 5 ATP160 Sealing method.