EC type-approval certificate

Number **T8118** revision 1
Project number 12200133

Issued by	NMi Certin B.V. Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands
In accordance with	The Council Directive 2009/23/EC on non-automatic weighing instruments.
Manufacturer	Xiamen Pinnacle Electrical Co Ltd. 4F GuangXia Building Torch High-Zone Xiamen Fujian 361006 China
In respect of	A class (III), electronic, single- or multi-interval, **non-automatic weighing instrument**, intended to be used for direct sales to the public. Manufacturer mark/name: Xiamen Pinnacle Electrical Co Ltd *or* Pinnacle Electrical (Xiamen) Corp. *or* Pinnacle Technology Corp. Brand name : Aclas Type : PS1X.. series
Characteristics	6 kg ≤ Max ≤ 30 kg e ≥ 2 g n ≤ 3000 divisions (per partial weighing range) Maximum of 2 partial weighing ranges Temperature range 0 °C / +40 °C $T \leq -(Max_1 - e_1)$ for multi interval instruments In the description number T8118 revision 1 further characteristics are described.
Valid until	23 July 2022
Description and documentation	The instrument is described in the description number T8118 revision 1 and documented in the documentation folder T8118-1, appertaining to this EC type-approval certificate.
Remark	This revision EC type-approval certificate replaces the earlier version, except for its documentation folder.

The Notified Body no. 0122
NMi Certin, 10 August 2012

C. Oosterman
Head Certification Board

NMi Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
The Netherlands
T +31 78 6332332
certin@nmi.nl
www.nmi.nl

1 General information about the non-automatic weighing instrument

All properties of the non-automatic weighing instrument, whether mentioned or not, may not be in conflict with the legislation.

1.1 Essential parts

See drawing Block diagram, drawing number 8118/0-01;
The electronics;
The mechanical assembly with load cell.

EMC protection measures:
- The A/D board is shielded with a metal cover.

1.2 Essential characteristics

Power supply:
- 5 VDC through an external AC/DC adapter;
- 4,5 VDC through either 3 AA batteries or a rechargable battery.

1.3 Essential shapes

The non-automatic weighing instrument is built according to the drawings:
- Exploded view PS1XA, drawing number 8118/0-02;
- Exploded view PS1XB, drawing number 8118/0-03;
- Exploded view PS1XC, drawing number 8118/0-04;
- Exploded view PS1XD, drawing number 8118/0-05;
- Exploded view PS1XE, drawing number 8118/0-06.

The data plate is secured against removal by sealing or will be destroyed when removed.
To secure components that may not be dismantled or adjusted by the user, the non-automatic weighing instrument has to be secured in a suitable manner on the locations indicated in the drawing:
- Sealing, drawing number 8118/0-07.

Inside the cabinet is a calibration lock, located on the main board.

1.4 Conditional parts

The non-automatic weighing instrument is fitted with a levelling device and a level indicator. A ring on the level indicator indicates when the maximum tilt is exceeded.

1.5 Non-essential parts

The non-automatic weighing instrument may be connected to non-essential devices, for example but not limited to bar code readers, foot switches, second display's and cash drawers, provided that:
- They do not present primary data used for purposes mentioned in article 1(2)(a) of Directive 2009/23/EC unless the "preliminary observations" in Annex 1 of this directive is satisfied;
- They do not lead to an instrument having other essential characteristics than those fixed by this type-approval document.

Battery.

2 Information about the main constituent parts of the non-automatic weighing instrument

2.1 The electronics

2.1.1 Essential parts

Description	Drawing number	Remarks
Main board lay-out	8118/0-08	
Main board parts list	8118/0-09	5 pages
AD board layout	8118/0-10	
AD board parts list	8118/0-11	

2.1.2 Essential characteristics

List of devices:
- Determination stability of equilibrium;
- Zero indicator;
- Initial zero-setting;
- Semi-automatic zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Indication of stable equilibrium;
- Calibration / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display;
- Price calculation;
- PLU function.

2.1.3 Conditional parts

The interface section is located on the main board. The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:
- RS232C.

This interface cannot be used for the applications listed in point (a) of article 1(2) of the Directive 2009/23/EC.

2.1.4 Non-essential parts

- Display;
- Keyboard.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Description	Drawing number	Remarks
Load cell 100-K specification	8118/0-12	
Construction	8118/0-13	

2.2.2 Essential characteristics

$e_1 \geq E_{max}/10000$ in case of multi-interval instrument;
Excitation power supply 2.8 V DC.

2.2.3 Essential shapes

See drawings from chapter 2.2.1.

3 Approval conditions

See chapter 1.3, essential shapes.

4 Seals and verification marks

See chapter 1.3, essential shapes.

5 CE-mark of conformity and inscriptions

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfill the requirements of article 1 of Annex IV of Directive 2009/23/EC