

EC type-approval Certificate

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Issued by	conformity modules mentioned in	etherlands to perform tasks with respect to article 9 of Directive 2009/23/EC, after iring instrument meets the applicable /EC, to:	
Manufacturer	Precisa Gravimetrics AG Moosmattstrasse 32 CH-8953 Dietikon Switzerland		
Measuring instrument	A Non-automatic weighing ins	trument + + + + + + + + + + + + +	
* * * * * * * * *	Type	: BC and BC 1600C Carat	
	* * * * * * * * * * * *		
	Further properties are described in	n the annexes:	
	 Description T6857 revision 2; Documentation folder T6857-2. 		
Valid until	8 December 2025		
Remarks+ + + + +	This revision replaces the earlier ve	ersions, except for its documentation 🔸 🔸 +	
	folder.	* * * * * * * * * * * * * * *	
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	Head Certification Board		
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1 General information about the non-automatic weighing instrument

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

1.1 Essential parts

See drawings:

- AJ-CE/AJH-CE/AJP-CE/AJHP-CE Block Diagram 1, drawing number 20YE001 rev. 2.1;
- AJ-CE/AJH-CE/AJP-CE/AJHP-CE Block Diagram 2, drawing number 20YE002 rev. 1.1;
- SJP Block Diagram 1, drawing number 21YE001;
- SJP Block Diagram 2, drawing number 21YE002.

The electronics;

The mechanical assembly with load cell.

EMC protection measures:

- See AJ-CE/AJH-CE/AJP-CE/AJHP-CE Block Diagram 2, drawing number 20YE002 rev. 1.1 or;
- See SJP Block Diagram 2, drawing number 21YE002;
- The weighing cell is shielded with a metal cover;
- Filter in the incoming power line;
- Ferrite (5 loops) around the power supply cable to the main board;
- Ferrite (1 loop) around the cable between main board and calibration weight unit mechanism;
- The weighing mechanism is connected to ground.

1.2 Essential characteristics

Accuracy class	Class 1	Class (II)
Maximum number of scale intervals	$n \le 82000 \ divisions$	$n \le 42000 \ divisions$
Maximum capacity	500 g ≤ Max ≤ 6200 g or 2500 ct ≤ Max ≤ 31000 ct	50 g \leq Max \leq 12 kg or 250 ct \leq Max \leq 60000 ct
Verification scale interval	e ≥ 0,01 g or e ≥ 0,1 ct e = d or e = 10d	e ≥ 0,01 g or e ≥ 0,1 ct e = d or e = 10d
Temperature range	+10 °C / +30 °C	
Power supply voltage	9 or 12 V DC, supplied by AC/DC adapter or by internal battery	



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1.3 Essential shapes

The non-automatic weighing instrument is built according to the drawings:

- AJ(H) and AJ(H)P External View, drawing number 20YM069 rev. 0.1;
- AJ and AJP External View, drawing number 20YM070 rev. 0.1;
- AJ(H) and AJ(H)P External View, drawing number 20YM071 rev. 0.1;
- CT and CT-DB External View, drawing number 20YM072 rev. 0.1;
- CT-T and CT-TDB External View, drawing number 20YM073 rev. 0.1;
- SJ(P) External View, drawing number 20YM074 rev. 0.1;
- SJ(P) External View, drawing number 20YM075 rev. 0.1;
- SJ(P) External View, drawing number 20YM076 rev. 0.1.

The descriptive markings plate is secured against removal by sealing or will be destroyed when removed.

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

1.4 Conditional parts

The non-automatic weighing instrument may be equipped with peripheral equipment which is used for the applications listed in article 1(2)(a) of Directive 2009/23/EC, provided that the peripheral equipment is certified to be connected to an EC type-approved non-automatic weighing instrument by a Notified Body responsible for type examination under Directive 2009/23/EC, or that the equipment and the use of the equipment comply with the requirements of WELMEC 2.5 Issue 2 Section 2.2.

The non-automatic weighing instrument is fitted with a levelling device and a level indicator, unless the instrument is installed in a fixed position. The level indicator has a sensitivity of at least 2 mm for a tilt of 2/1000.

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.

Other non-essential parts:

- Windscreen over the load receptor (in case of type AJ(H)-220CE / -420CE / -620CE);
- AC/DC-adapter.



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

2.1 The electronics

2.1.1 Essential parts

Number	Pages	Description	Remarks
20YE004	1	AJDP PCB Parts Assignment	Revision 1.1
21YE004	1	SJP-DP PCB Parts Assignment	Revision 1.1
AJDP PCB	1	AJ / AJH series : IC list	-

2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero indicator;
- Zero-tracking;
- Combined initial zero-setting and subtractive tare balancing;
- Combined semi-automatic zero-setting and subtractive tare balancing;
- Indication of stable equilibrium;
- Semi-automatic span adjustment with internal calibration mass (optional for class (II));
- Semi-automatic span adjustment with internal or external calibration mass (only for class \bigcirc);
- Calibration / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display;
- Weight unit selection (g, ct, %, pcs);
- Auxiliary indication with differentiated scale division (optional).

2.1.3 Conditional parts

Number	Pages	Description	Remarks
20YE006	1	PCB lay-out of Battery unit DJBT-1	Including parts list

The interface section is located in 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.



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2.1.4 Non-essential parts

Display; Keyboard.

2.1.5 Non-essential characteristics

- Check weighing mode (=limit function);
- Percentage weighing mode;
- Piece counting mode.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Number	Pages	Description	Remarks	
20YM007	1	View of Components AJ-CE /AJ-SCE/AJH-CE	Revision 1.1	
20YM013	1	View of Components AJ / AJH / SJ / SJP	Revision 1.1	
20YM019	1	View of Components AJ for carat (CT)	Revision 1.1	
20YM004	1	Mechanical Unit	-	
20YM012	1	Mechanical Unit	-	

2.2.2 Essential characteristics

Maximum capacity of the weighing cell in case of class ①:

- Max = 820 g with e = 0,01 g;
- Max = 6200 g with e = 0,1 g;

Maximum capacity of the weighing cell in case of class II:

- Max = 420 g with e = 0,01 g;
- Max = 4200 g with e = 0,1 g;
- Max = 12 kg with e = 1 g.



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2.2.3 Essential shapes

Description	Drawing number	Rev.	Remarks
Mechanical Unit	20YM004	-	
Mechanical Unit	20YM012	-	

3 Seals

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 drawings:

- AJ(H) and AJ(H)P-220CE~620CE External View, drawing number 20YM069 rev. 0.1;
- AJ and AJP-820CE~1200CE External View, drawing number 20YM070 rev. 0.1;
- CT and CT-DB External View, drawing number 20YM072 rev. 0.1;
- AJ(H)-2200~12KCE External View, drawing number 20YM071 rev. 0.1;
- CT-T and CT-TDB External View, drawing number 20YM073 rev. 0.1;
- SJ(P)-220~820CE External View, drawing number 20YM074 rev. 0.1;
- SJ(P)-1200CE External View, drawing number 20YM075 rev. 0.1;
- SJ(P)-2200~12KCE External View, drawing number 20YM076 rev. 0.1.

4 Conditions for conformity assessment

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.