

EC type-approval certificate

Number **T5591** revision 1 Project number 9200906 Page 1 of 4

÷	Issued by	NMi Certin B.V.	k-	
÷	+ + + + + +	Hugo de Grootplein 1	E. J	
+	+ + + + + +	3314 EG Dordrecht + + + + + + + + + + + + + + + + + + +	E 3	
÷	* * * * * *	The Netherlands	k i	
÷	+ + + + + +	* * * * * * * * * * * * * * * * * * * *	6.	
+	In accordance	The Council Directive 90/384/EEC on non-automatic weighing instruments.		
	with			
	Applicant			
	Applicant	A&D Instruments Ltd. 24 Blacklands Way		
1		Abingdon Business Park		
1	*****	Abingdon, Oxfordshire		
*	* * * * * * 1	OX14 1DY		
+	+ + + + + +	United Kingdom		
÷	*****	* * * * * * * * * * * * * * * * * * * *	F	
Ŧ	In respect of	A class (1), graduated, self-indicating, electronic, single- interval non-automatic	1	t
٠	+ + + + + +	weighing instrument.	-	÷
÷	+ + + + + +	Manufacturer : A&D		÷
+	*****	Type + + + + : + GR-EC + + + + + + + + + + + + + + + + + + +		
a.				
1	Characteristics	n ≤ 300000 divisions		
		120 g \leq Max \leq 300 g or the equivalent in ct		
		$e \ge 1$ mg or the equivalent in ct		
	* * * * * *	e = d or e =10 d or e = 100 d		
*	* * * * * *	Temperature range +10 °C / +30 °C		1
÷	* * * * * *	+ + + + + + + + + + + + + + + + + + +		
+	* * + + * *	In the description number T5591 revision 1 further characteristics are described.		t
÷	Valid until	15 January 2020		
+	+ + +	······································	1.	ŧ
÷	Description and	The instrument is described in the description number T5591 revision 1 and		
÷		documented in the documentation folder T5591-1, appertaining to this		
+	+ + + + + +	EC type-approval certificate.		
÷	2 + + + + + +	* * * * * * * * * * * * * * * * * * * *		
÷	Remarks	This revision of the EC type-approval certificate replaces the earlier version, except		
*	* * * * * *	for its documentation folder.		
	+ + A + +	* * * * * * * * * * * * * * * * * * * *		
÷	The Notified Boo	v Number 0122		
į.	NMi Certin, 15 Ja			
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*	X	* * * * * * * * * * * * * * * * * * * *		
+	C. Oosterman	* * * * * * * * * * * * * * * * * * * *		
٠	Head Certificatio	n Board		
÷	* * * * * *	* * * * * * * * * * * * * * * * * * * *		
÷	NMi Certin BV Hugo de Grootplein 1	Parties concerned can lodge objection This document is issued under the provision against this decision, within six weeks after that no liability is accepted and that the		
÷	3314 EG Dordrecht	the date of submission, to the general applicant shall indemnify third-party manager of NMi (see "Regulation objection liability.		
4	PO Box 394 3300 AJ Dordrecht, N	and appeal against decisions of NMi")		
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1	www.nmi.nl	RvA 122		



Description

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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, may not be in conflict with the legislation.

1.1 Essential parts

The electronics.

The mechanical assembly with weighing cell.

EMC protection measures:

- The A/D board is shielded with a metal cover.

1.2 Essential characteristics

Power supply: 230 V AC, 50 Hz..

1.3 Essential shapes

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

- GR Series Exploded view 1 drawing number GR-004;
- GR Series Exploded view 2 drawing number GR-005.

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 drawing:

- GR Series Markings and Sealing drawing number GR-001A.

The securing component has to bear either:

- a mark of the manufacturer laid down in a notified body approved quality system (Annex II of the directive 90/384/EEC), or
- an official mark of a Member State of the EEC, or an other party to the EEA agreement.

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 the EC Directive (90/384/EEC), if the peripheral equipment is certified to be connected to an EC type-approved non-automatic weighing instrument by a Notified Body appointed to certify non-automatic weighing instruments according to paragraph I of Annex II of the EC directive on Non-Automatic Weighing Instruments.

A level indicator with shows that the maximum permissible tilt is being exceeded.



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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 the EC Directive (90/384/EEC) 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.

AC/DC-adapter.

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	Rev.	Remarks	
GR Series A to D Convertor	GR-003	-	Layout including Parts List	
GR Series Main Board	GR-002	-	Layout including Parts List	

2.1.2 Essential characteristics

List of devices:

- selection of units of mass: g, mg, ct, oz;
- auxiliary indicating (e =10 d or e = 100 d);
- determination stability of equilibrium;
- zero-tracking;
- initial zero-setting;
- initial tare setting;
- combined semi-automatic zero-setting and subtractive tare balancing;
- indication of stable equilibrium;
- density determination;
- semi automatic calibration mode (with internal and/or external weight);
- automatic calibration mode with internal weight;
- acting upon significant faults;
- display checking;
- counting device;
- percentage mode;
- memory storage.



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2.1.3 Conditional parts

The interface section is located on the power 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;
- remote key input.

2.1.4 Non-essential parts

Display; Keyboard.

2.2 The mechanical assembly with weighing cell

2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks	
GR Series Exploded view 2	GR-005	-		

2.2.2 Essential characteristics

Maximum capacity of the weighing cell:

- Max = 300 g with e = 1 mg.

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 fulfil the requirements of article 1 of Annex IV.