



**Member State of OIML
United Kingdom of Great Britain
and Northern Ireland**

**OIML Certificate No
R76/1992-GB1-09.03**

OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory**
Address: **Stanton Avenue
Teddington
Middlesex
TW11 0JZ
United Kingdom**

Person responsible: **Paul Dixon
Product Certification Manager**

Applicant

Name: **Adam Equipment Co. Ltd.**
Address: **Bond Avenue
Bletchley
Milton Keynes
MK1 1SW
United Kingdom**

Identification of the certified pattern:

**GFK..M non-automatic weighing instrument formed by
connecting the GK indicator to a weighing platform
Further characteristics see page 2**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML:	R76
Edition:	1992 (E)
Accuracy class:	III

**OIML Certificate No
R76/1992-GB1-09.03**

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

The conformity was established by tests described in the associated:

Test report: TR: 543 having 37 pages
Pattern evaluation checklist: F20351 having 12 pages

The issuing authority



Mr P R Dixon

The CIML member



Mr P Mason

Date: 13 March 2009

Ref: T1127/0020

Characteristics: The GFK..M instrument utilises the digital indicating device designated the GK indicator connected to a weighing platform to form a Class III, mains or battery-powered self-indicating, non-automatic weighing instrument.

Main features:

- Main PCB with processor type ATMEGA64
- 6-digit (plus symbols and indicators) LCD screen, and 9 LEDs to its left
- 20-key keypad (numerical and functions)
- Plastic enclosure

Devices:

- Initial zero setting
- Semi-automatic zero setting
- Zero tracking
- Zero indicator
- Semi-automatic subtractive tare weighing
- Net indicator
- Determination of stability of equilibrium
- Indication of stability of equilibrium
- Parts counting
- Percent weighing
- Checkweighing
- Live animal weighing
- Accumulation
- Real-time clock

Load cell:

The load cell may be:

MODEL	Max	Min	e =	Loadcell	Emax
GFK 60M	60 kg	0.40 kg	20 g	HBM PW24C3	100 kg
GFK 60M	60 kg	0.40 kg	20 g	Zemic L6G	100 kg
GFK 150M	150 kg	1 kg	50 g	HBM PW24C3	200 kg
GFK 150M	150 kg	1 kg	50 g	Zemic L6G	200 kg
GFK 300M	300 kg	2 kg	100 g	Zemic L6G	500 kg

Any compatible load cell may be used providing the following conditions are met:

- There is a respective OIML Certificate of Conformity (R60) issued for the load cell.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to R76 has been conducted on this load cell.
- The compatibility of the load cells and indicator is established by the manufacturer by means of the compatibility of modules calculation.

Technical data:

Power supply	230VAC, 50/60 Hz 6V rechargeable battery
Maximum number of scale intervals	3000
Load cell excitation voltage	5 Vdc
Minimum load cell impedance	87 Ω
Maximum load cell impedance	1120 Ω
Minimum input voltage per verification scale interval	1.5 μV
Measuring range minimum voltage	4.5 mV
Measuring range maximum voltage	45.0 mV
Fraction of maximum permissible error	$P_{ind} = 0.5$
Operating temperature range	-10 °C to + 40 °C
Load cell connection	6-wire shielded
Load cell cable max length (junction box to indicator)	172 m/mm ²

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