



Australian Government

National Measurement  
Institute

Bradfield Road, West Lindfield NSW 2070

# Interim Certificate of Approval NMI 6/9C/311

**VALID FOR VERIFICATION PURPOSES UNTIL 18 SEPTEMBER 2014**

Issued by the Chief Metrologist under Regulation 60  
of the  
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Ravas Model iForks 2000 Weighing Instrument

submitted by Australian Flameproof Services Pty Ltd  
1-3 Ventura Place  
Dandenong South VIC 3175

**NOTE:** This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

## DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	18/10/13
1	Pattern amended (validity date) – interim certificate issued	17/01/14
2	Pattern amended (validity date) – interim certificate issued	16/06/14

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/9C/311' and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0B.

### **Special**

This approval shall NOT be used in conjunction with General Certificate No 6B/0.

#### **1. Description of Pattern**

**approved on 18/10/13  
amended on 16/06/14**

The Ravas model iForks 2000 is a class **(III)** single interval self-indicating non-automatic weighing instrument of 2000 kg maximum capacity with a verification scale interval of 2 kg fitted to a forklift truck.

Instruments shall be marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording).

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

The load receptor consists of two lifting forks (iForks) fitted to a forklift truck. Each iFork has a PCB which contains two analogue to digital convertors. The digital weighing signal is transmitted to the Ravas model 3100N digital indicator by using Bluetooth protocol.

Two Mettler Toledo model SBC\1R C3 load cells of 1000 kg capacity are used in each iFork.

A model EP-LEVELSENSOR CS-001 level correction sensor is fitted to the truck carriage of an iFork, and detects the degree to which the folk lift vehicle is tilted from its reference (level) condition. The level sensing device imposes limits on the level condition and disables the weight determination if acceptable levels of tilt are exceeded.

The indicator may be powered by 12 V rechargeable battery (e.g. from the forklift truck battery) or other DC power source.

Each fork may be powered by a 4 × 1.2 V rechargeable battery pack.

#### **TEST PROCEDURE**

A suitable Test Procedure may be obtained from NMI.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



Dr A Rawlinson

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