



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

OIML Certificate No  
R50/1997-GB1-09.01

## 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: **Siemens Milltronics**  
Address: **1954 Technology Drive**  
**Peterborough ON K9J 6X7**  
**Canada**

Manufacturer of the certified pattern is the Applicant.

Identification of the certified pattern:

**Milltronics MSI / MMI**  
**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):

<b>OIML:</b>	<b>R50</b>
<b>Edition:</b>	<b>1997 (E)</b>
<b>Accuracy classes:</b>	<b>1</b>

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 reports Number TR524 which includes 46 pages, and the associated pattern evaluation checklist A2080 which includes 10 pages.

Issuing authority



Mr P R Dixon  
*for* NWML

CIML member



Mr P Mason

Date 20 March 2009

Ref: T1134/0001

This pattern of an automatic continuous totaliser (belt weigher), designed to weigh large quantities of loose material from bulk to bulk, is designated the "Milltronics MSI or MMI". It comprises:

- a weighing platform type MSI or MMI
- a speed sensor
- an integrator type BW 500

The MMI weighing platform comprises two or three MSI weighing platforms installed in succession.

Load cells:

The load cells are single-ended beam (bending) G4-TBSP models manufactured by Group Four Transducers, as described in OIML Certificate of Conformity R60/2000-GB-01.02.

The instrument is provided with the following devices:

- main totalising device
- semi-automatic zero-setting device
- indication of the flow rate (Q)
- indication of the belt speed
- indication of the totalised weight
- error messages and alarms

The instrument has the following technical characteristics:

Power supply	100 – 120 Vac, 50/60 Hz 200 – 240 Vac, 50/60 Hz
Totalisation scale interval	$\geq 0.001$ t
Qmax	Dependent upon application
Qmin	$\geq 20\%$ Qmax
$\Sigma$ min	Dependent upon application
Operating speed	0.2 to 5.0 m/s
Weigh length	Dependent upon application
Load cells excitation voltage	10 Vdc
Minimum load cell impedance	28 $\Omega$
Maximum load cell impedance	1100 $\Omega$
Minimum input voltage per verification scale interval	2 $\mu$ V
Measuring range minimum voltage	2.6 mV
Measuring range maximum voltage	50 mV
Climatic environment	-10 °C to 40 °C Condensing (open)
Electromagnetic environment	E1 and E2
Accuracy class	$\geq 1$
Load cell cable	4 wire and screen

The instrument may have the following interfaces:

- Load cell connection (hardwired)
- Speed sensor
- RS232
- RS485
- Digital I/O
- Modbus connection

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