



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

OIML Certificate No
R50/1997-GB1-09.01
Revision 2

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**
Person responsible: **Paul Dixon – Director, Product Certification**
Applicant: **Siemens Milltronics
1954 Technology Drive
Peterborough ON K9J 6X7
Canada**
Manufacturer: **The applicant**
Identification of the
certified pattern: **Milltronics MSI / MMI**

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 Organisation of Legal Metrology (OIML):

OIML R 50 - Edition 1997(E) for accuracy class 1

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.

Important note: Apart from the mention of the certificates reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.

This revision replaces earlier versions of the certificate.

Issue Date: 30 March 2015
Reference No: TS0102/0006

**Signatory: G Stones
for Chief Executive**



The conformity was established by tests and examination described in the associated pattern evaluation report P01532 which includes 11 pages.

Characteristics of the instrument:

This pattern of an automatic continuous totaliser (beltweigher), 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.

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

Technical characteristics:

Power supply	100 – 120 Vac, 50/60 Hz 200 – 240 Vac, 50/60 Hz
Totalisation scale interval	≥ 0.001 t
Qmax	Dependent upon application
Qmin	≥ 20% Qmax
Σmin	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 Ω
Maximum load cell impedance	1100 Ω
Minimum input voltage per verification scale interval	2 μV
Measuring range minimum voltage	7.6 mV
Measuring range maximum voltage	50 mV
Climatic environment	-10 °C to 40 °C Condensing (open)
Electromagnetic environment	E1 and E2
Accuracy class	≥ 1
Load cell cable	4 wire and screen

Interfaces:

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

Alternatives:

Modified BW500 design with the following specifications:

Power supply: 100-240 VAC, 50/60 Hz or 10-30 VDC

Interfaces:

- mA output
- Digital inputs
- RS232
- RS485
- Industrial communication Smartlinx
- Speed sensor
- Load cell connection (hardwired)

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R50/1997-GB1-09.01	20 March 2009	Certificate first issued
R50/1997-GB1-09.01 Revision 1	4 August 2009	Measuring range minimum voltage corrected to 7.6 mV.
R50/1997-GB1-09.01 Revision 2	30 March 2015	Test report and checklist replaced by reference to Evaluation report P01532. Alternatives section added.