



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

OIML Certificate No
R76/1992-GB1-04.04

OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory**
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Person responsible: **Richard Sanders – Assistant Director, Type Approval.**

Applicant

Name: **Chronos Richardson GmbH**
Address: **Reutherstrasse 3
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Germany**

Identification of the certified pattern:

**Chronos Richardson GmbH SpeedAC NXT indicating device
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 |

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: N° 00457 having 46 pages and associated pattern evaluation checklist F20040 which includes 12 pages.

The issuing authority

Richard Sanders

The CIML member

Jeff Llewellyn

Date 26 February 2004

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Characteristics: This indicating device is designated the SpeedAC NXT indicator. It has the following devices:

- Semi-automatic zero setting device ($\leq 4\%$ of Max)
- Zero-tracking device ($\leq 0.5d/s$ within 4% Max)
- Subtractive tare device
- Gross and Net Indicator
- Semi automatic tare device
- Pre set tare device
- Display test device
- Time and date function

Comprising of: The indicator housing is fabricated from stainless steel plate. The front panel has a backlit LCD display and a twenty-seven key keyboard, five of the twenty seven keys are programmable software keys.

Technical characteristics of $P_i = 0.5$ (highest precision)

| | |
|---|----------------------|
| Power supply | 115 VAC or 230 VAC |
| Maximum number of scale intervals | 6000 |
| Loadcell excitation voltage | ± 5 VDC (10 VDC) |
| Minimum loadcell impedance | 21.875 Ω |
| Maximum loadcell impedance | 2000 Ω |
| Minimum input voltage per verification scale interval | 1 micro volt |
| Measuring range minimum voltage | -10 mV |
| Measuring range maximum voltage | 70 mV |
| Fraction of maximum permissible error | $P_{ind} = 0.50$ |
| Operating temperature range | -10°C to +40°C |

| | |
|----------------|---|
| Loadcell cable | 6 cores around PVC filler in centre, tinned copper braid, flexible PVC overall jacket. Maximum length = 100 m for 4-wire operation |
|----------------|---|

Technical characteristics of $P_i = 0.75$ (lowest precision)

| | |
|---|---|
| Power supply | 115 VAC or 230 VAC |
| Maximum number of scale intervals | 10000 |
| Load cell excitation voltage | ± 5 VDC (10 VDC) |
| Minimum load cell impedance | 21.875 Ω |
| Maximum load cell impedance | 2000 Ω |
| Minimum input voltage per verification scale interval | 1 micro volt |
| Measuring range minimum voltage | -10 mV |
| Measuring range maximum voltage | 70 mV |
| Fraction of maximum permissible error | $P_{ind} = 0.75$ |
| Operating temperature range | -10°C to +40°C |
| Load cell cable | 6 cores around PVC filler in centre, tinned copper braid, flexible PVC overall jacket. Maximum length = 100 m for 4-wire operation |

| Maximum cable length for 6-wire operation | | | | |
|---|---------------------|---------------------|---------------------|----------------|
| Load Cell Impedance ¹ | Cable size | | | Unit of length |
| | 0.2 mm ² | 0.5 mm ² | 1.0 mm ² | |
| 22 Ω | 14 | 33 | 71 | Meters |
| 44 Ω | 28 | 66 | 142 | Meters |
| 87 Ω | 56 | 133 | 283 | Meters |
| 350 Ω | 224 | 535 | 1134 | Meters |

¹ calculated by dividing the single load cell impedance by the number of load cells

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