



# OIML Certificate

### **OIML Member State** The Netherlands



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Issuing authority NMi Certin B.V.

Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer

Tekfa A/S Aarhusvej 201 8464 Galten Denmark

Identification of the certified type

A tension load cell, with strain gauges

Type TTS 10t-50t

Characteristics See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 60-1:2017 for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

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#### Issuing Authority

## NMi Certin B.V., OIML Issuing Authority NL1 17 July 2023



## **Certification Board**

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The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMi-3476516-01 dated 20 April 2023 that includes 51 pages.

#### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E <sub>max</sub> )	10 t up to and including 50 t	
Minimum dead load	0 t	
Accuracy Class	С	
Rated Output	1,5 ± 0,003 mV/V	
Maximum number of load cell intervals (n) (1)	3000	
Ratio of minimum LC Verification interval $^{(1)}$ Y = $E_{max}$ / $v_{min}$	11000	
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	12000	
Input impedance	700 $\Omega$ ± 7 $\Omega$	
Temperature range	-10 °C / + 40 °C	
Fraction p <sub>LC</sub>	0,7	
Humidity Class	СН	
Safe overload	150 % of E <sub>max</sub>	
Output impedance	703 Ω ± 4 Ω	
Recommended excitation	5-12 V AC / DC	
Excitation maximum	18 V AC / DC	
Transducer material	Stainless steel	
Atmospheric protection	Hermetically welded	

#### Remark:

1. The characteristics for  $n_{max}$ , Y and Z can be reduced separately.

Each load cell produced is provided with an accompanying document with information about its characteristics.

The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the Utilizer Declaration:

- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.









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## **Revision History**





Revision	Date	Change(s)
0	2023-07-17	Initial issue.









