

OIML Certificate





The Netherlands

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Issuing authority NMi Certin B.V. Person responsible: C. Oosterman

Applicant and **Total Control Systems** Manufacturer 2515 Charleston Place,

Fort Wayne, IN 46805, Unites states of America.

An electronic calculating and indicating device Identification of the

certified type Type: TCS 3000

Characteristics See page 2 and further

This OIML Certificate is issued under scheme B

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

R 117-1 (2007) "Dynamic measuring systems for liquids other than water"

Accuracy class 0,5

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

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority NMi Certin B.V., OIML Issuing Authority NL1

15 April 2019

Øosterman

Head Certification Board

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org









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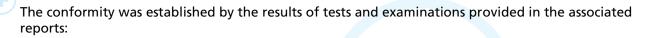
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- No. NMi-13200303-01 dated 12 May 2015 that includes 68 pages;
- No. NMi-13200303-02 dated 12 May 2015 that includes 16 pages;
- No. NMi-15200806-01 dated 3 March 2016 that includes 5 pages.

Characteristics of the electronic calculating and indicating device

In Table 1 the general characteristics of the electronic calculating and indicating device are presented. The construction of the electronic calculating and indicating device is recorded in the Documentation folder no. TC8392-1.

Table 1 General characteristics

Accuracy class	0,5
Environmental classes	M3 / H3 / E3 (including E2)
Ambient temperature range	-40 – +55 °C; condensing humidity.
Product temperature range	See table 2
Intended for the measurement of	Liquids
Power supply voltage	24 V AC
Software identification	See table 3

Table 2 Temperature and density range of the electronic calculating and indicating device

product	product temperature range	product density range
Generalized products, such as Diesel, Fuel oil etc.	-40 – +90 °C	670 kg/m³ – 1070 kg/m³
Liquefied Petroleum Gas (LPG)	-46 – +80 °C	490 kg/m³ – 685 kg/m³















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Table 3 Software identification

device	identification	checksum
application	1.4.3	90268C841BB0CFE57BD99C5F18537503
		988CE5A5E366F85788B9C53A33B3C8ED
firmware V10.	V10.04.14	A687
	V10.09.14	A3E7
	V10.14.15	A14B
operating system	3.12.18	887e2f7ba0e1c887445798fbecaf76fa
	3.12.10	1cd85424e85b5ee929aeca4a1986ffc3









