



Product Service

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Technical Report No.

713021753A

dated
2013-05-14

Client: TÜV SÜD Product Service GmbH
Sylvesterallee 2
22525 Hamburg

Manufacturer and / or location of manufacturing: Thames Side Sensors Ltd.
Unit 10 io Trade Centre Deacon Way
Reading, Berkshire RG30 6AZ England

Unit/s under test (UUT): loadcell T34

Test specification: Sealing test re. test of degree of protection provided by enclosure in accordance to ISO 20653:2006-08

Test scope: Verification of suitability for intended application according the under position 3 detailed test specification.

Test result: The unit under test was not opened. The visual inspection showed no deficiencies or damages.
The presented unit met the requirements.

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Accredited Test Laboratory
Deutsche Akkreditierungsstelle GmbH
(DAkkS):
Reg.No. D-PL-11321-02-01

Rep.-No: 713021753A
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TUV[®]

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Integrated documentation



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1 Unit/s under test (UUT)

The unit under test was a loadcell
Type: T34
Serial-No.: 1082453

2 Order

2.1 Date of order, initial of client

TÜV SÜD Product Service GmbH, Hamburg ordered from TÜV SÜD Product Service GmbH, Mannheim with order sheet dated 2013-03-26 and Mail dated 2013-05-02, order No. 713021753 to test the a.m. UUT.

2.2 Receipt of UUT

The sample was delivered by mail on 2013-03-25.

2.3 Location of Testing

The UUT was tested at the Fraunhofer ICT, D-76327 Pfinztal.

2.4 Reconsignment of UUT

The sample is still in our lab.



3 Test specification

Degree of protection IP X9K

fan nozzle	
distance nozzle to UUT:	100 mm to 150 mm
water flow rate:	14 l/min to 16 l/min
water temperature:	80°C ± 5°C
water pressure:	8000 kPa to 10000 kPa
spray in position:	0°, 30°, 60°, 90°
test duration:	30 s per position
UUT on rotary table:	rpm (5 ± 1)/min

Before and after the steam jet test an insulating resistance test was performed:

test voltage	100 VDC
duration:	60 s
measuring:	all strands against housing
measuring precision:	up to 2 TΩ ± (1,5 % + 2 digits)

Result before the steam jet test: > 200 GΩ

Result after the steam jet test: > 200 GΩ

Before and after the steam jet test the UUT was weighed:

Result before the steam jet test: 2343,2 g

Result after the steam jet test: 2349,4 g

4 Test equipment

Equipment	Type	Ser.-No.	Manufacturer
Spray chamber IP X9K	SWK		Brabender
High power cleaner IP X9K	N/A		Falch
Dielectrimer	DMG50+		Sefelec
Scale	FB6CCE-H		Sartorius

The measuring equipment is calibrated regularly according to the calibration instructions of TÜV SÜD PRODUCT SERVICE GmbH. All calibrations are traced back to national standards.



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5 Test sequence

Test date: 2013-05-07

No.	Test	Period	Notes
	Protection against water - IP X9K	2013-05-07	Test- Step 1: weighing UUT (result: 2343,2 g) Test-Step 2: insulation resistance (result: > 200 GΩ) Test-Step 3: protection against water test (IP X9K), duration: 2 min Test-Step 4: weighing UUT (result 2349,4 g) Test-Step 5: insulation resistance (result: > 200 GΩ) The weighing was done with all the connecting cables.

6 Legend of measuring diagrams

none

7 Test documentation

none

8 Photo documentation



1: UUT on the rotary table




2: UUT during IP X9K test

Verified
Signature



Wolfgang Jakobi
Dept.-Manager

Edited
Signature



Katja Krückl
Editor