		V 3112

OIML Member State	**OIML Certificate No.**
Czech Republic	R137/2012-A-CZ1-25.02

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: Czech Metrology Institute
Address: Okružní 31, 638 00 Brno, Czech Republic

Person responsible: Jan Kalandra

Applicant

Name: Tianjin Sure Instrument Co., Ltd.
Address: No.12 Outer Ring Industrial Park 300380 Tianjin, China

Manufacturer

Name: Tianjin Sure Instrument Co., Ltd.
Address: No.12 Outer Ring Industrial Park 300380 Tianjin, China

Identification of the certified type *(the detailed characteristics will be defined in the additional pages)*

Turbine gas meter, type LWQ

Designation of the module *(if applicable)*

This OIML 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):

OIML R137 Edition (year): 2012, Including Amendment 2014

For accuracy class (if applicable): 1.0

Český metrologický institut

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

- No. 0511-ER-P096-25 dated 15.09.2025 that includes 21 pages.
- Test Report No. 5012-PT-A0002-25 dated 18.02.2025 that includes 29 pages.

The technical documentation relating to the identified type is contained in documentation file:

0511-UL-P096-25

OIML Certificate History

Revision No.	Date	Description of the modification
-	23 September 2025	Issuing Certificate

The OIML Issuing Authority
RNDr. Pavel Klenovský
Head of Certification Body

Date: 23 September 2025

Český metrologický institut -3-

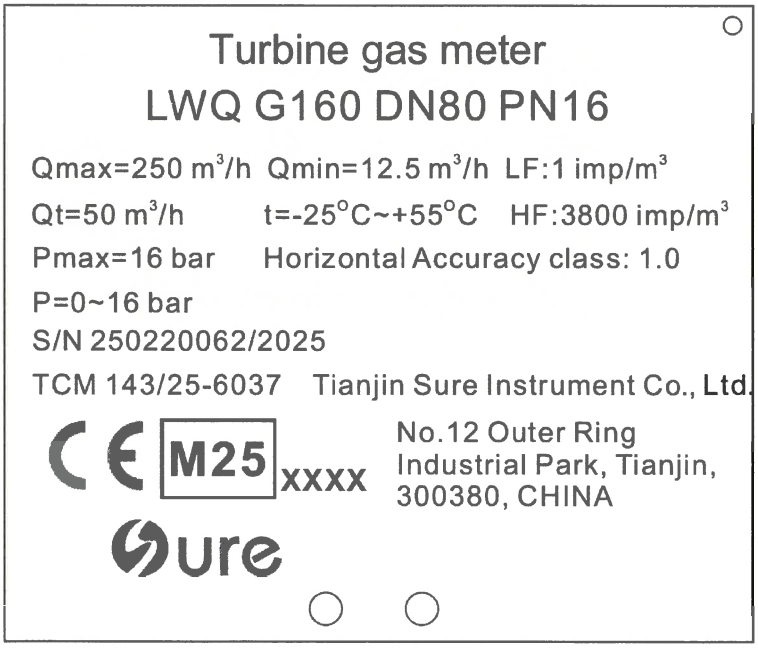
Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

1 General information concerning the type

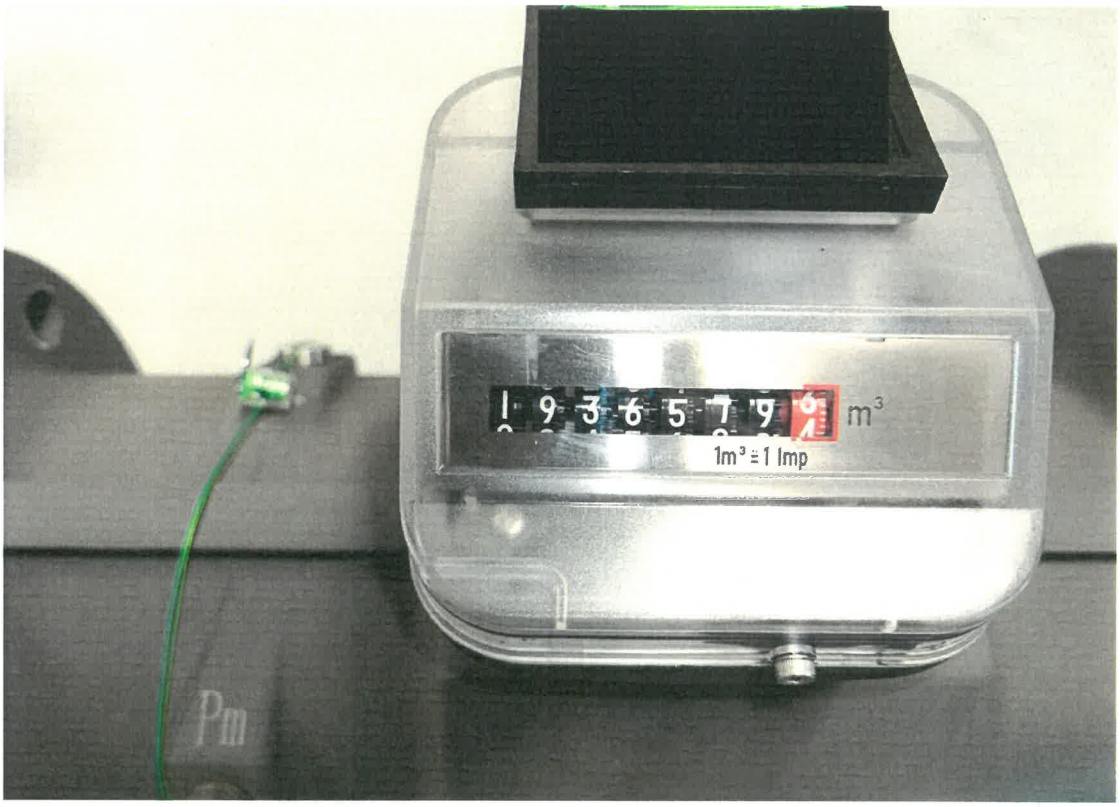
Information, indicated on the instrument	
Manufacturer's trade mark	Sure
Type designation	LWQ
Accuracy class	1.0
Cyclic volume (if applicable)	---
Minimum pressure p_{min}	0 bar(g)
Maximum pressure p_{max}	16 bar
Ambient temperature range	-25°C .... +55°C
Gas temperature range	-25°C .... +55°C
Base pressure (if applicable)	---
Base temperature (if applicable)	---
t_{sp} (if applicable)	---
Electrical power	---
Identification of software	---

If the working pressure is higher than 4 bar, then verification of a gas meter at the appropriate higher static pressure is required.

Example of the label:

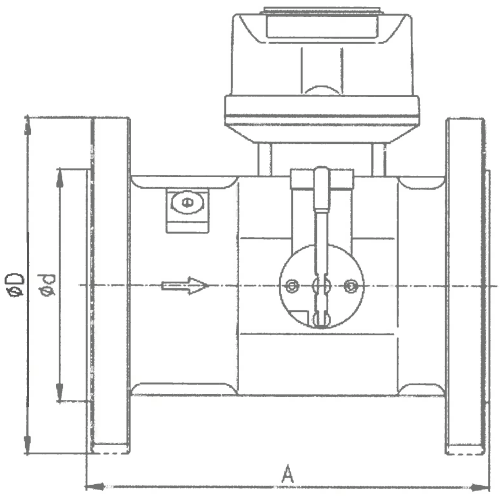


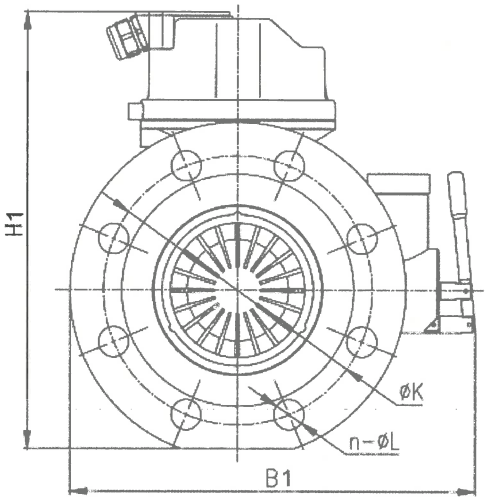
Example of the counter head:



2 Additional information concerning the type

DN (mm)	Size G	Q_{max} (m³/h)	Q_t (m³/h)	Q_{min} (m³/h)	Q_{max}:Q_{min}	Q_{max}:Q_t	Counter decimal places	LF (imp/m³)	Pmax (bar)
80	G100	160	32	8	20.0	5	1	1	16
	G160	250	50	12.5	20.0	5	1	1	
	G250	400	80	20	20.0	5	1	1	
100	G160	250	50	12.5	20.0	5	1	1	
	G250	400	80	20	20.0	5	1	1	
	G400	650	130	32	20.3	5	1	1	
150	G400	650	130	32	20.3	5	1	1	
	G650	1000	200	50	20.0	5	1	1	
	G1000	1600	320	80	20.0	5	1	1	
200	G650	1000	200	50	20.0	5	0	0.1	
	G1000	1600	320	80	20.0	5	0	0.1	
	G1600	2500	500	125	20.0	5	0	0.1	





DN mm)	A Flang To Flang	width		H1
		B	B1	
50	150	215	225	230
80	240	232	242	260
100	300	252	262	280
150	450	312	322	338
200	600	381	397	407
250	750	445	455	469
300	900	490	500	515