

OIML Member State
The Netherlands

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Manufacturer Rosemount
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United States of America

Identification of the certified type **A vortex gas meter**
Type: 8800D

Characteristics See following page(s)

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 Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 137-1:2012 "Gas meters"

Accuracy class 1.5

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.

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Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
29 January 2026

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-3700782-01 dated 9 January 2024 that includes 13 pages;
- No. NMI-3715012-01 dated 29 January 2026 that includes 48 pages.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.
In Table 2 the flow rate range of the family of instruments is presented.
In Table 3 the characteristics of the family of instruments are presented.

The construction of the measuring instrument is recorded in the Documentation folder no. R137-2012-A-NL1-26.02-1.

Table 1 General characteristics

| | |
|--|---|
| Environmental classes | M2 / E2 |
| Operating pressure range | 0 to 120 bar(g) |
| Ambient temperature range | -40 – +70 °C; condensing humidity |
| Gas temperature range | -40 – +70 °C |
| Gas density range at actual gas conditions | 0,5 kg/m ³ and higher |
| Orientation | All orientations |
| Intended for the measurement of | Gaseous |
| Power supply voltage | 10,8 – 42 V DC |
| Software identification | Version number: Hart 5: 5.3.6 Hart 7: 7.2.6 |

Table 2 Flow rate range of the family of instruments

| Meter size ["] | Minimum Q_{min} [m ³ /h] | | Maximum Q_{max} [m ³ /h] | |
|-------------------|---|-----------------------------------|---|-----------------------------------|
| | $\rho_{min} \geq 6,51$ | $\rho_{min} < 6,51$ | $\rho_{max} < 40,52$ | $\rho_{max} \geq 40,52$ |
| 2 | 19,4 | $\frac{49,6}{\sqrt{\rho_{min}}}$ | 388 | $\frac{2472}{\sqrt{\rho_{max}}}$ |
| 3 | 43,3 | $\frac{110,6}{\sqrt{\rho_{min}}}$ | 867 | $\frac{5518}{\sqrt{\rho_{max}}}$ |
| 4 | 75,6 | $\frac{193,0}{\sqrt{\rho_{min}}}$ | 1513 | $\frac{9628}{\sqrt{\rho_{max}}}$ |
| 6 | 171 | $\frac{436,4}{\sqrt{\rho_{min}}}$ | 3420 | $\frac{21768}{\sqrt{\rho_{max}}}$ |
| 8 | 300 | $\frac{765,6}{\sqrt{\rho_{min}}}$ | 6000 | $\frac{38193}{\sqrt{\rho_{max}}}$ |
| 10 | 481 | $\frac{1227}{\sqrt{\rho_{min}}}$ | 9615 | $\frac{61205}{\sqrt{\rho_{max}}}$ |

where:
 ρ_{min} = smallest actual density for which the meter is intended to be used
 ρ_{max} = largest actual density for which the meter is intended to be used

Notes:

- If higher values are chosen for Q_{min} and/or lower values for Q_{max} , it has to be taken into account that $Q_{max} / Q_{min} \geq 5$.
- For Q_t it has to be taken in account that $Q_t \geq Q_{min}$ and $0,1 Q_{max} \leq Q_t \leq 0,2 Q_{max}$.

Table 3 General characteristics of the family of instruments

| Meter size | 2" | 3" | 4" | 6" | 8" | 10" |
|---|---------------|----|---|----|----|-----|
| Overload flow rate Q_r (m ³ /h) | 1,2 Q_{max} | | | | | |
| Indicating range (m ³) | 9 999 999 | | 9 999 999 or 99 999 999 | | | |
| Verification scale interval (m ³) | 0,1 | | 0,1 or 1 These intervals are respectively according to the numbers of digits above | | | |

Installation conditions:

Inlet piping and flow straightener.

The meter is used, with the indicated minimum piping lengths, in one of the following configurations:

- Configuration with flow straightener:
 - 5D piping followed by a CPA 50E or NOVA 50E compliant design straightener followed by 10D piping at the inlet of the meter
 - and 10D piping at the outlet of the meter.
- Or configuration without flow straightener:
 - 40 D piping at the inlet of the meter
 - and 10D piping at the outlet of the meter.

Production location

The measuring instrument is produced at one of the following production locations:

- Rosemount, 12001 Technology Drive, Eden Prairie MN 55344, United States of America
- Emerson Process Management Flow Technologies Co., Ltd Asia Flow Technology Center, 111 Xing Min South Road Jiangning District Nanjing, Jiangsu Province, 211167, China.
- F-R Tecnologias de Flujo, S.A. de C.V., Avenida Miguel de Cervantes #111, Complejo Industrial Chihuahua, 31136, Chihuahua, Chihuahua, Mexico.
- Emerson SRL, Str. Emerson Nr.4, Parcul Industrial, Tetarom 2, 400641, Cluj-Napoca, Romania.

Conditions for conformity assessment:

Before taken into use the vortex meter shall be calibrated on gas. The calibration must be traceable to (inter)national standards and shall have an appropriate uncertainty. The vortex meter shall be calibrated over the full flow rate range, with the following conditions depending on the density range:

- For meters with $\rho_{\min} \leq 15 \text{ kg/m}^3$, calibration shall be performed at one temperature and pressure within the operating range, with Reynolds number ≥ 15000 .
- For meters with $\rho_{\max} > 15 \text{ kg/m}^3$, calibration shall be performed at one operating temperature at maximum operating pressure with a representative density.

Revision History

| Revision | Date | Change(s) |
|----------|------------|----------------|
| 0 | 29-01-2026 | Initial issue. |