EU-type examination certificate

Number **T11329** revision 3
Project number 2579081

Issued by

NMi Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect to conformity modules mentioned in article 17 of Directive 2014/32/EU, after having established that the Measuring instrument meets the applicable requirements of Directive 2014/32/EU, to:

Manufacturer

Zenner Gas S.r.l.
Via Aterno, 122
66020 San Giovanni Teatino (CH)
Italy

Measuring instrument

A **Diaphragm Gas Meter**

Type	:	Atmos xxS / Atmos HP xxA (xx is G1.6, G2.5, G4, G4L, G6M, WG2.5 or WG6M)
Manufacturer's mark or name	:	ZENNER
Destined for the measurement of	:	Gas volume
Accuracy class	:	Class 1,5
Environment classes	:	M1 / E1
Temperature range	:	-25 °C / +55 °C
Location	:	Closed

Further properties are described in the annexes:
- Description T11329 revision 3;
- Documentation folder T11329-2.

Remark

This revision replaces the previous versions, except for its documentation folder.

Valid until

19 April 2028

Issuing Authority

NMi Certin B.V., Notified Body number 0122
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Certification Board

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1 General information about the gas meter

All properties of the gas meter, whether mentioned or not, shall not be in conflict with the legislation.

The meter is executed as follows:
- A gas meter with a mechanical register, indicating the volume at metering conditions, conform paragraph 2.1 of ANNEX IV (MI-002).

This certificate contains references to other certificates. The properties mentioned in these certificates shall be observed in addition to the properties mentioned in this certificate.

1.1 Essential parts

Producer	Type	Certificate number	Remarks
Zenner Metering Technology (Shanghai) Ltd.	Atmos G1.6S Atmos G2.5S Atmos G4S Atmos G4L Atmos WG2.5S Atmos G6M Atmos WG6M Atmos HP G1.6A Atmos HP G2.5A Atmos HP G4A Atmos HP G4L Atmos HP WG2.5A Atmos HP WG6M Atmos HP G6M	TC10945	A diaphragm gas meter module, including the diaphragm, valve and valve seat

1.2 Essential characteristics

1.2.1 See EU-type examination certificate no. T11329 revision 3 and the characteristics mentioned below:

Maximum p_{max} Steel housing : 0,5 bar
Aluminium housing : 1,5 bar

Measuring volume [dm^3]	Maximum Q_{max} [m^3/h]	Minimum Q_{min} [m^3/h]	Minimum Q_t [m^3/h]
1,2	6	0,016	0,2
2,0	10	0.04	0.6

Notes:
If higher values are chosen for Q_{min} and/or lower values for Q_{max}, it has to be taken into account that $Q_{max} / Q_{min} \geq 150$. For Q_t it has to be taken in account that the minimum value is not lower than the minimum value as indicated in the table above and that $Q_t \leq 0{,}1\ Q_{max}$.

1.3 Essential shapes

1.3.1 The nameplate is bearing at least, good legible, the following information:
- CE marking including the supplementary metrological marking (M + last 2 digits of the year in which the instrument has been put into use);
- Notified Body identification number, following the supplementary metrological marking;
- EU-type examination certificate no. T11329;
- all relevant markings as specified in Evaluation Certificate no. TC10945;
- manufacturer's name, registered trade name or registered trade mark;
- manufacturer's postal address;
- type designation;
- serial number of the meter and year of manufacture;
- mechanical environment class (can also be given in the manual);
- electromagnetic environment class (can also be given in the manual);
- Qmax, Qt and Qmin;
- cyclic volume;
- maximum working pressure p_{max};
- ambient temperature range;
- accuracy class.

Examples of the markings are shown in document number 11329/0-01.

1.3.2 Sealing: see chapter 2.

1.4 Conditional parts

See Evaluation Certificate TC10945 and the parts mentioned below.

1.4.1 Construction
In addition to the essential parts as mentioned at 1.1, the meter contains at least the following conditional parts:
- housing;
- transmission;
- register.

1.4.2 Housing
The gas meter has a housing, which has sufficient tensile strength. See Evaluation Certificate TC10945 for further details.

1.4.3 Transmission
The transmission between the measuring part and the register is executed via a fixed mechanical coupling.

1.4.4 Register
The indication takes place in m^3, by at least 5 drums before the comma and 3 drums after the comma. In drawing number 11329/0-02 an example of the counter is presented. The counter is adjustable via an adjusting wheel, which can be found in document numbers 11329/0-03 and 11329/2-01.

1.5 Conditional shapes

See Evaluation Certificate TC10945.

1.6 Non-essential parts

See Evaluation Certificate TC10945 and the parts mentioned below.

1.6.1 Pulse generator.

2 Seals

The following items of the meter are sealed:

- The nameplate of the meter;
- The entrance to the measuring part of the aluminium meters is sealed with two or more seals;
- The entrance to the register is sealed with one or more seals;
- If a separate nameplate is used to show the pulse value this nameplate has to be sealed.

See document numbers 11329/0-04 and 11329/2-02 for examples of the sealing.