

Issued by NMI Certin B.V.,  
designated and notified by the Netherlands to perform tasks with respect to  
conformity modules mentioned in article 9 of Directive 2004/22/EC, after  
having established that the Measuring instrument meets the applicable  
requirements of Directive 2004/22/EC, to:

Manufacturer Sacofgas 1927 S.p.A.  
Via Cardinale Ascanio Sforza 85, 20141 Milano, Italy

Measuring instrument **A Diaphragm Gas Meter**

Type : lpn / S80 AT  
lpn / S80 AL  
PhN 10 / 20 / 30 / 60 / 100

Destined for the measurement of : Gas volume

Accuracy class : Class 1,5

Environment classes : M2 / E1

Location : Closed

Temperature range : - 25 °C / +55 °C

G-value	Q <sub>max</sub> [m <sup>3</sup> /h]	Q <sub>min</sub> [m <sup>3</sup> /h]	Q <sub>t</sub> [m <sup>3</sup> /h]	V [dm <sup>3</sup> ]
100	160	1	16	120
65	100	0,65	10	60
40	65	0,4	6,5	35
25	40	0,25	4	20
16	25	0,16	2,5	10
10	16	0,1	1,6	10
4	6	0,04	0,6	1,2
2,5	4	0,025	0,4	1,2
1,6	2,5	0,016	0,25	1,2

Further properties are described in the annexes  
– Description T10258 revision 2  
– Documentation folder T10258-3

Valid until 12 April 2020

Remarks This revision replaces the earlier version, including its documentation folder.

Issuing Authority **NMI Certin B.V., Notified Body number 0122**  
10 November 2010

  
C. Oosterman  
Head Certification Board

## 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.

This revision has been issued due to the addition of the G1,6 and a redesign of the metal casing.

### 1.1 Essential parts

Description	Documentation	Remarks
Construction	10258-01, 10258-05, 10258/2-01, 10258/2-02	Description
Diaphragm	10258-06	Material rubber coated polyester and NBR, manufacturer Reeves/Trellebor or EFFBE
Valve and valve seat	10258-06	Material fenolic resin and graphit, manufacturer Delgra or Vyncolit

### 1.2 Essential characteristics

1.2.1 See EC Type-examination certificate no. T10258 Revision 2 and the characteristics mentioned below:

maximum $p_{max}$	l <sub>pn</sub> / S80 AT	:	0,5 bar
	l <sub>pn</sub> / S80 AL	:	2,0 bar
	PhN 10 / 20 / 30 / 60 / 100	:	0,5 bar

### 1.3 Essential shapes

1.3.1 The nameplate is bearing at least, good legible, the information as mentioned in the legislation. An example of the markings is shown in document no. 10258-04.

1.3.2 Sealing: see chapter 2.

### 1.4 Conditional parts

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.

The meter can also be provided with a low frequency impulse output.

#### Housing

The gas meter has a housing, which has sufficient tensile strength.

The l<sub>pn</sub> / S80 AL cover is made of aluminium alloy, the lower and upper case are connected with each other by screws.

The Ipn / S80 AT and PhN XX cover is made of steel sheet, the lower and upper case are connected with each other by a clamp for G-values up to and including G16. For larger G-values the lower and higher case are connected with each other by screws. The counter case is also connected to the upper case by screws. Examples of the housing are stated on 10258-05, 10258/2-01 and 10258/2-02.

#### 1.4.2 Transmission

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

#### 1.4.3 Register

The indication takes place in m<sup>3</sup>, by a sufficient number of drums before the comma to ensure that the quantity passed during 8000 hours at Q<sub>max</sub> does not return the drums to their initial values and a test element that enables tests to be carried out in a reasonable time. In drawing nr. 10258-08 an example of the counter is presented. The counter is adjustable via an adjusting wheel, see documentation nr. 10258-07.

#### 1.4.4 Low frequency impulse output (optional)

In addition to the register a low frequency impulse output can be mounted to the meter. The pulse factor of the impulse output shall be indicated on the nameplate. In drawing nr. 10258-08 an example of the impulse output is presented. In drawing nr.10258-08 the position of the impulse output in the register is presented.

### 1.5 Conditional shapes

#### Connection

The meter is executed with a double pipe connection.

G-value	Minimum diameter of the connections [mm]	Maximum distance between connections [mm]
100	102	710
65	82	640
40	68	510
25	61	335
16	48	280
10	48	280
4	23	160
2,5	23	160
1,6	23	160

### 1.6 Non-essential parts

1.6.1 Reverse stop for preventing registration in reversed flow direction

1.6.2 Pressure measuring point with a maximum hole through the meter housing of 1 mm, mounted on the horizontal plane of the upper case.

1.6.3 Maximally two temperature sockets for measuring the gas temperature.



# Description

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## 2 Seals

The following items of the meter are sealed:

- The entrance to the measuring part is sealed with one or more seals, if applicable.
- The entrance to the register is sealed with one or more seals.

See drawing no. 10258-05 and 10258/2-01 for an example of the sealing.