

Diaphragm Gas Meter



Best Quality
Dae Myoung

GAS METER / WATER METER / THERMAL ENERGY METER



DAEMYOUNG I&T
DAEMYOUNG INSTRUMENT TECHNOLOGY INC.

Domestic Diaphragm Gas Meters



KG2



G1.6



G2.5



G4.0



G6.0A



G6.0B

Applicable Gas

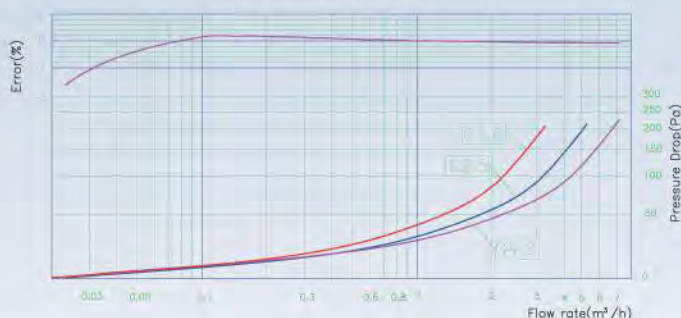
- City gas, LPG, Natural Gas

Features

- DMIT gas meter is high accurate meter meeting international standard (OIML) and Korea standard.
- High quality nitrile coated rubber polyester base fabric is used for smooth rotation of movement, so it can measure very small volume(Qmin) accurately.
- Noise is minimized by using precious rotary valve and valve seat.
- Drain pan of gas meter inlet collects dirty or sludge and prevents frozen by moisture in winter.
- Under the differential pressure, the performance is excellent. The material of diaphragm is durable against low and high temperature and water proofing with no deformation.

Performance Curve

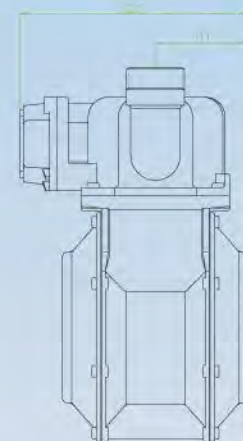
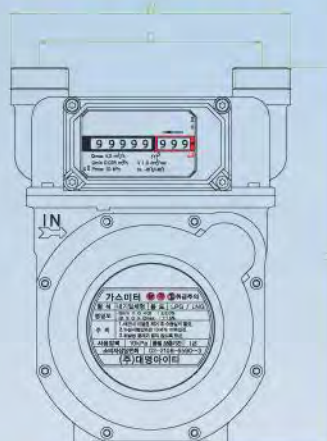
Performance Curve



Material

- Housing is made of die casted aluminum, which is durable from external shocks and corrosion.
- Rotating axis is strong against cold and hot by using good lubricant grease, so it maintains smooth rotation for long time operation

Specification / Dimension



Specification	KG2	KG3S	G1.6	G2.5	G4.0	G6.0A	G6.0B
Max Capacity (m³/h)	2.5	2.5		4	6	10	
Min Capacity (m³/h)	0.016	0.016		0.025	0.04	0.06	
Cyclic volume (L/rev.)	0.4	0.78		1	1.2	2	
Max Counter (m³/h)	9999,999			99999,999			
Max operating Pressure (kPa)	10 or (50kPa)						
Min Counter (L)	0.2						
Accuracy	Qmin≤Q<0.1Qmax			±3.0			
	0.1Qmax≤Q≤Qmax			±1.5			
Temperature °C	-20~+60						
Weight (Kg)	1.5	1.6		1.8	2	2.8	3.0
Connecting pipe (UNION)	15mm PT1/2'	15mm PT1/2'	20mm PT3/4'	20mm PT3/4'	20mm PT3/4'	25mm PT1'	

Mechanism

- When gas flows into gas meter, it flows to measuring chamber through distribution chamber. Then the diaphragm generates alternating movement, which is converted to rotation movement by a gear, and such rotation movement indicates the gas usage on meter index.

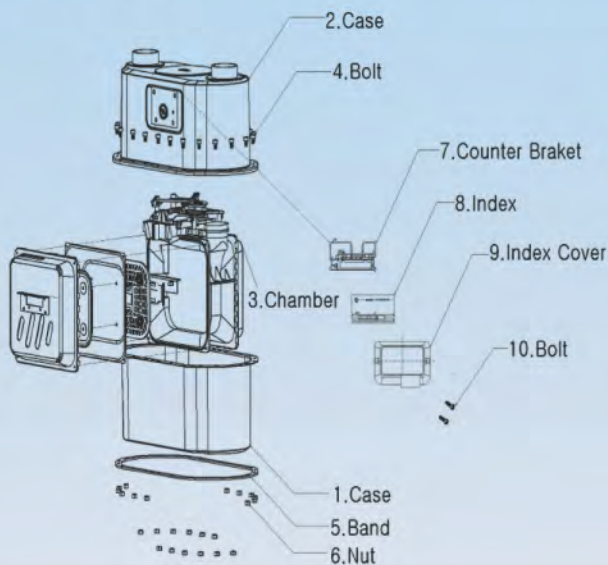
Dimension	KG2	KG3S	G1.6	G2.5	G4.0	G6.0A	G6.0B
(mm)	Height (H)	197	214	214	221	230.5	279.5
	Width (W)	128	164	164	164	165	171.91
	Center (C)	100	100	130	130	130	250
	Depth (D1)	44	52	52	55	54	61
	Depth (D2)	110	130	130	134	134.5	148

Commercial & Industrial Diaphragm Gas meters



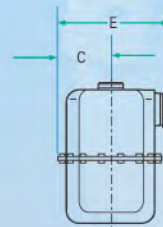
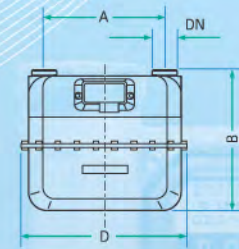
Mechanism

- Measuring chambers are separated by synthetic diaphragms. The chambers are filled, and emptied periodically as the chambers slide left and right, and the movement of the diaphragms is transferred via a gear to the crankshaft. This shaft moves the valves, which control the gas flow. The rotations of the gear are transferred via a magnetic coupling to the index.

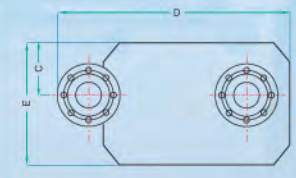
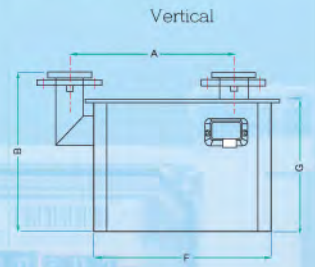


Specification / Dimension

G10-G25



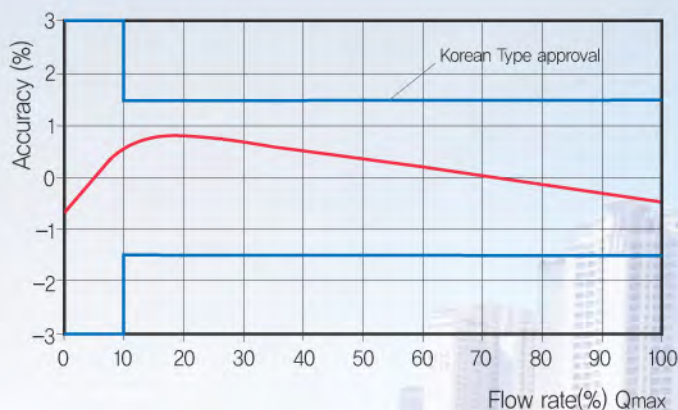
G40



Indication	unit	G10	G16	G25	G40
A	mm	280	280	335	510
B	mm	333	333	398	495
C	mm	119	119	143	172
D	mm	415	415	475	753
E	mm	239	239	294	400
F	mm	-	-	-	551
G	mm	-	-	-	415
Weight	Kg	6,7 (7,7)	6,7 (7,7)	11 (12,5)	50

	G10	G16	G25	G40
Nominal Diameter (DN)	40mm(Union)		50mm(Union)	80mm(Flange)
Operating Pressure (Kpa)	50 (100Kpa option)			
Cyclic Volume (dm³)	6		12	18
Minimum Capacity (m³/h)	0,1	0,16	0,25	0,4
Maximum Capacity (m³/h)	16	25	40	65
T.D.R	1 : 160			
Error P Qmax - Qi	Within ±1,5%			
Error P Qt - Qmin	Within ±3,0%			
Max counter	999999,99			
Using Gas	LPG, LPG, Inert Gas			
Body Material	Aluminium Steel			
Pulser	Magnet for the pulse was installed inside.			
Approval	Korean Type Approval			

Accuracy curve



CERTIFICATE

QUALITY MANAGEMENT SYSTEM



Valid Date 2014. 05. 12 ~ 2015. 10. 31
Issue Date 2014. 05. 12
Initial Registration Date 2012. 11. 01
Certificate Number AC-05425

DAEMYOUNG IT CO., LTD.

- HEAD OFFICE : 808, Daeryung Techno 6th, 648, Seobusaet-gil, Geumcheon-gu, Seoul, 153-774, Korea
- FACTORY : 515-4, 3.1manse-ro, Jangan-myeon, Hwaseong-si, Gyeonggi-do, 445-944, Korea

*Korean Foundation for Quality certifies that
The Quality Management System of the above
organization has been audited and has complied
with the requirements of the following standard*

Standard

KS Q ISO 9001:2009 / ISO 9001:2008

Scope of certification

PRODUCTION AND SERVICES OF WATER METER,
WATER METER COMPONENTS(STRAINER, WATER
METER PARTS), GAS METER AND
VOLUME CONVERSION EQUIPMENT



[PERMITTED EXEMPTIONS : 7.3 DESIGN & DEVELOPMENT]



The use of Accreditation Mark indicates accreditation in respect of
those activities covered by the KAB(Accreditation Certificate Number KAB-QC-01)

Daehyun Nam
Dae Hyeoun Nam
President & CEO of KFQ

www.kfq.or.kr
13F, Woolim Lion's Valley Bldg. B, 168, Gasan digital 1-ro, Geumcheon-gu, Seoul, 153-786, Korea



THE INTERNATIONAL CERTIFICATION NETWORK
CERTIFICATE

IQNet and
 KFQ
 hereby certify that the organization

DAEMYOUNG IT CO., LTD.

- HEAD OFFICE : 808, Daeryung Techno 6th, 648, Seobusaet-gil, Geumcheon-gu, Seoul, 153-774, Korea
- FACTORY : 515-4, 3.1manse-ro, Jangan-myeon, Hwaseong-si, Gyeonggi-do, 445-944, Korea

for the following field of activities

PRODUCTION AND SERVICES OF WATER METER, WATER METER COMPONENTS
 (STRAINER, WATER METER PARTS), GAS METER AND VOLUME CONVERSION EQUIPMENT
 [PERMITTED EXEMPTIONS : 7.3 DESIGN & DEVELOPMENT]

has implemented and maintain a
Quality Management System
 which fulfills the requirements of the following standard

ISO 9001:2008

Issued on : 2014. 05. 12
 Validity date : 2015. 10. 31

Registration Number : **KR - 05425**



Michael Drechsel
 President of IQNet

Dae Hyeoun Nam
 President & CEO of KFQ



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СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС KR.AG87.H00158

Срок действия с 17.07.2013 по 16.07.2016

№ 1120669

ОРГАН ПО СЕРТИФИКАЦИИ рег. № РОСС RU.0001.11AG87.продукции ООО «Бизнес Хэлп». 115191, г. Москва, ул. 2-я Рощинская, д. 4, этаж 2, пом. 1, ком. 6, тел. +7 (495) 920-61-67, E-mail info@biznes-help.org.

ПРОДУКЦИЯ Счетчики газа объемные диафрагменные типа: KG2,KG3,KG4,KG6,G6,G10,G16,G25,G40,G65,G100,G160, G250,G400,G650,G1000,G1600,UNIGAS500. Серийный выпуск.

код ОК 005 (ОКП):

42 1312

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ
ГОСТ Р 50818-95

код ТН ВЭД России:

9028 10 000 0

ИЗГОТОВИТЕЛЬ «DAEMYOUNG I&T CO., LTD». Адрес: Rm.808, Daeryung Techno Town 6-cha, Geumcheon-gu, Seoul, Korea, Республика Корея.

СЕРТИФИКАТ ВЫДАН «DAEMYOUNG I&T CO., LTD». Адрес: Rm.808, Daeryung Techno Town 6-cha, Geumcheon-gu, Seoul, Korea, Республика Корея. Телефон 82-2-2108-5590.

НА ОСНОВАНИИ протокол № 057-БХ-07/13 от 16.07.2013 г. ИЛ ООО «Бизнес Хэлп», рег. № РОСС RU.0001.21AB87 от 21.10.2011, адрес: 115191, г. Москва, ул. 2-я Рощинская, д. 4, этаж 2, пом. 1, комн. 6

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Маркировка продукции знаком соответствия производится в соответствии с ГОСТ Р 1.9-2004, на корпусе изделия и/или товаросопроводительной документации. Схема сертификации: 3.



Руководитель органа

Масва
подпись

О.Н. Масва

инициалы, фамилия

Эксперт

Юденков
подпись

В. С. Юденков

инициалы, фамилия

Сертификат не применяется при обязательной сертификации

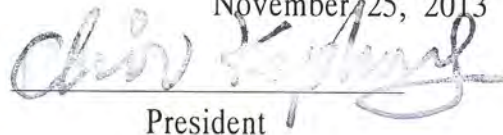
Type Approval No : KTC-H-13-21

Certificate of Type Approval

1. Manufacturer : DAEMYOUNG IT CO., LTD.
2. Representative : Jongin, Kim
3. Address : 515-4, 3.1manse-ro, Jangan-myeon,
Hwaseong-si, Gyeonggi-do, 445-944, Korea
4. Type of measuring instrument : Gas meter
5. Identification of certified type
 - Type : Digaphragm type (G1.6)
 - Maximum flowrate ($Q_{\max}$) : 2.5 m³/h
 - Transitional flowrate (Q_t) : 0.25 m³/h
 - Minimum flowrate ($Q_{\min}$) : 0.016 m³/h
 - Maximum Working pressure ($P_{\max}$) : 10 kPa
 - Cycle volume (V) : 0.78 m³
 - Accuracy Class : 1.5
 - The range of metering temperatures (t_m) : -20 °C ~ 60 °C
 - Nominal internal diameter of the connecting pieces : M34×1.5
 - Remote indicating device : No

This is to certify that the type of measuring instrument has been certified in accordance with the provision of Clause 1., Article 12 of the Law in Metrology and Clause 1., Article 13 of the enforcement decree of the said law.

November 25, 2013



President

Korea Testing Certification
Republic of Korea

CERTIFICATE

ENVIRONMENTAL MANAGEMENT SYSTEM



Valid Date 2013. 10. 04 ~ 2016. 10. 03
Issue Date 2013. 09. 30
Initial Registration Date 2010. 10. 04
Certificate Number EAC-05034

DAEMYOUNG IT CO., LTD.

- HEAD OFFICE : 808, Daerung Techno Town 6-cha, 648, Seobusaet-gil, Geumcheon-gu, Seoul, 153-774, Korea
- FACTORY : 515-4, 3.1manse-ro, Jangan-myeon, Hwaseong-si, Gyeonggi-do, 445-944, Korea

*Korean Foundation for Quality certifies that
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organization has been audited and has complied
with the requirements of the following standard*

Standard

KS I ISO 14001:2009 / ISO 14001:2004

Scope of certification

PRODUCTION OF WATER METER, GAS METER AND
GAS VOLUME CONVERSION



The use of Accreditation Mark indicates accreditation in respect of those activities covered by the KAB(Accreditation Certificate Number KAB-EC-01)

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for the following field of activities

PRODUCTION OF WATER METER, GAS METER AND GAS VOLUME CONVERSION

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ISO 14001:2004

Issued on : 2013. 10. 04
 Validity date : 2016. 10. 03

Registration Number : **KR - 05034**



Michael Drechsel
 President of IQNet

Dae Hyeoun Nam
 President & CEO of KFQ



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QUALITY MANAGEMENT SYSTEM CERTIFICATE

QA090267

DAEMYOUNG IT CO., LTD.

Head Office: Rm.907, Daeryung Techno Town 6-cha, Gasan-dong, Geumcheon-gu, Seoul, Korea

Factory: #532-1, Suchon-ri, Jangan-myeon Hwaseong-si, Gyeonggi-do, Korea

Has been found to conform to the Quality Management System Standard:

KS Q ISO 9001 : 2009 / ISO 9001 : 2008

This certificate is valid for the following product or service ranges :

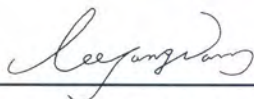
Manufacture and Service of Water Meter, Gas Meter,
Gas Temperature and Pressure Calibration Device

Valid until : 04th November, 2012 Date : 05th November, 2009

Issue Date: 05th November, 2009



Approved by :



President CreBizQM

- Lack of fulfillment of conditions described in the Guide for Certification Process may render this Certificate invalid.
- The Certification scope above has been approved by Accreditation Body.
- CrebizQM has been unified Crebiz Certification Body in English.

* Initial Certification : 2009. 11. 05



KS CERTIFICATE

This is to certify that the Korean Industrial Standard Mark(KS mark) of :

Daemyoung Intrument Technology INC.
Suchon ri 532-1, Jangan-Myon hwaseong-si Kyoung Ki-do. Korea
Kim Jong In

*has been approved by Korean Standards Association
to the following Korean Industrial Standard :*

KS B 8300
Gas meters -Conversion devices -Part 1 : Volume conversion
Temperature, Prssure, Compressibiliy factor Conversion Type. end

in accordance with the Korean Industrial Standardization Act.

Certificate Number : 11-0150

Certification Date : 23-Feb-2011

Current Certificate : 04-Jul-2011

Certified by Chang Ryong Kim

President

Korean Standards Association

Korea Technology Center, 701-7, Yeoksam-dong, Gangnam-gu, Seoul, Korea

