MarMonix

Promote your assessment

Product Datasheet

# MGF-7200

## MARMONIX Gas Turbine Flow meter

**Overview:**

Marmonix Gas Turbine Flow meter MGF-7200 enables efficient measurement of many types of gases. For reliable measurement, the gas stream must be chemically compatible with the stainless steel body and internals of the meter and free of solid particles larger than dust and all liquids beyond a film.

It mainly used for measuring natural gas, LPG, Coal gas etc. Widely used in different industries such as: Natural gas transmission, Urban gas industries, petrochemical industries, electric power industries.

**Features:**

- Specific oil injection structure
- Multiple output
- Intelligent volume corrector
- Portable converter
- LCD HP display
- Portable Converter
- Dual Power

**Accurate measurement**

**Custody transfer**

## Application

Mainly for natural gas, LPG, coal gas etc.


**CLEAN**

**DRY**

**SINGLE PHASE**

**LOW VELOCITY**

New High-tech Enterpris

CE

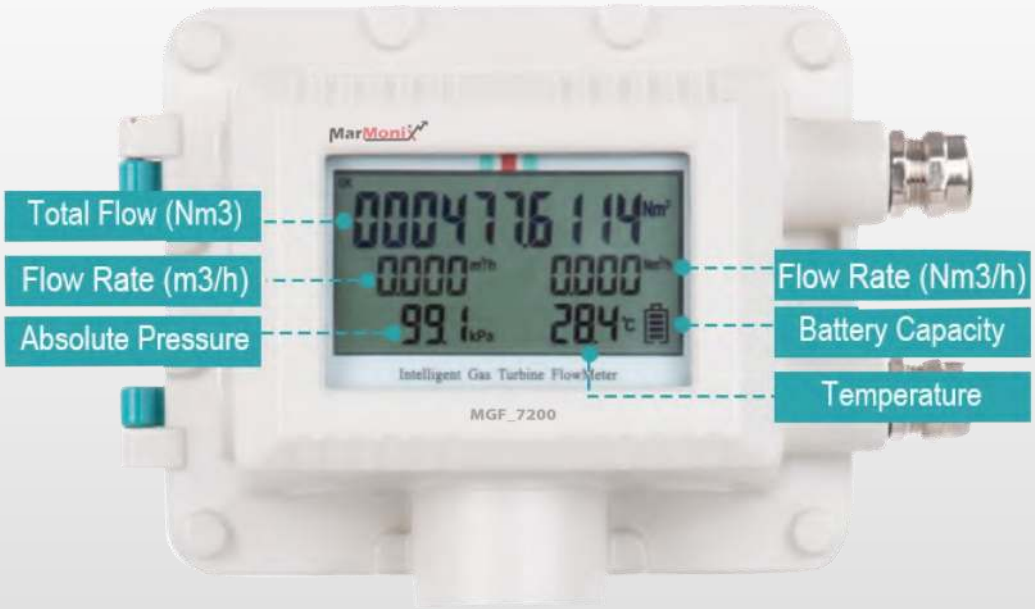
Ex-proof

ISO

## Widely used in various industries


## DETAILS

## LCD HD Display



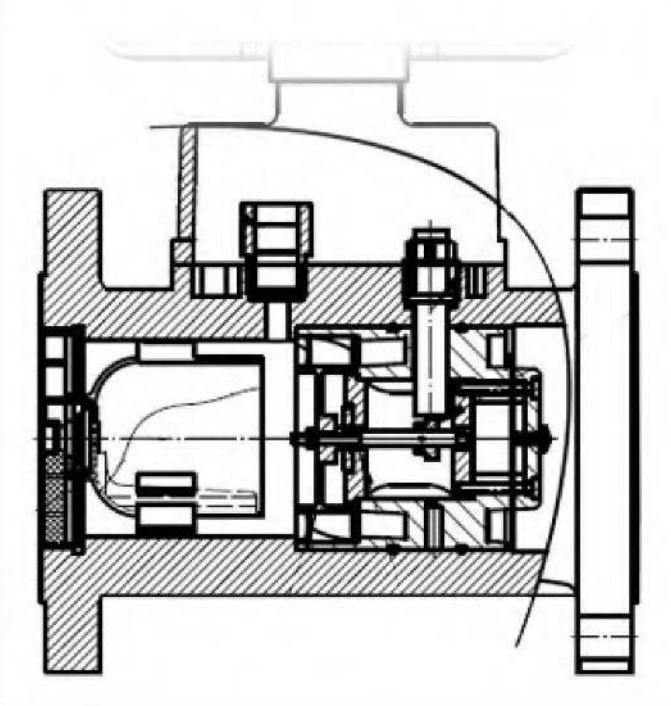

## ROTABLE CONVERTER

- **Digital board, strong anti- interference ability**
- **Support display to rotate 350º**
- **Easy to read data in different directions**

# INTELLIGENT VOLUME CORRECTOR

**Built-in Temperature & Pressure sensors**

- **Dynamic detect temperature & pressure data**
- **Automatic T&P compensation**
- **Compression factor corrector**



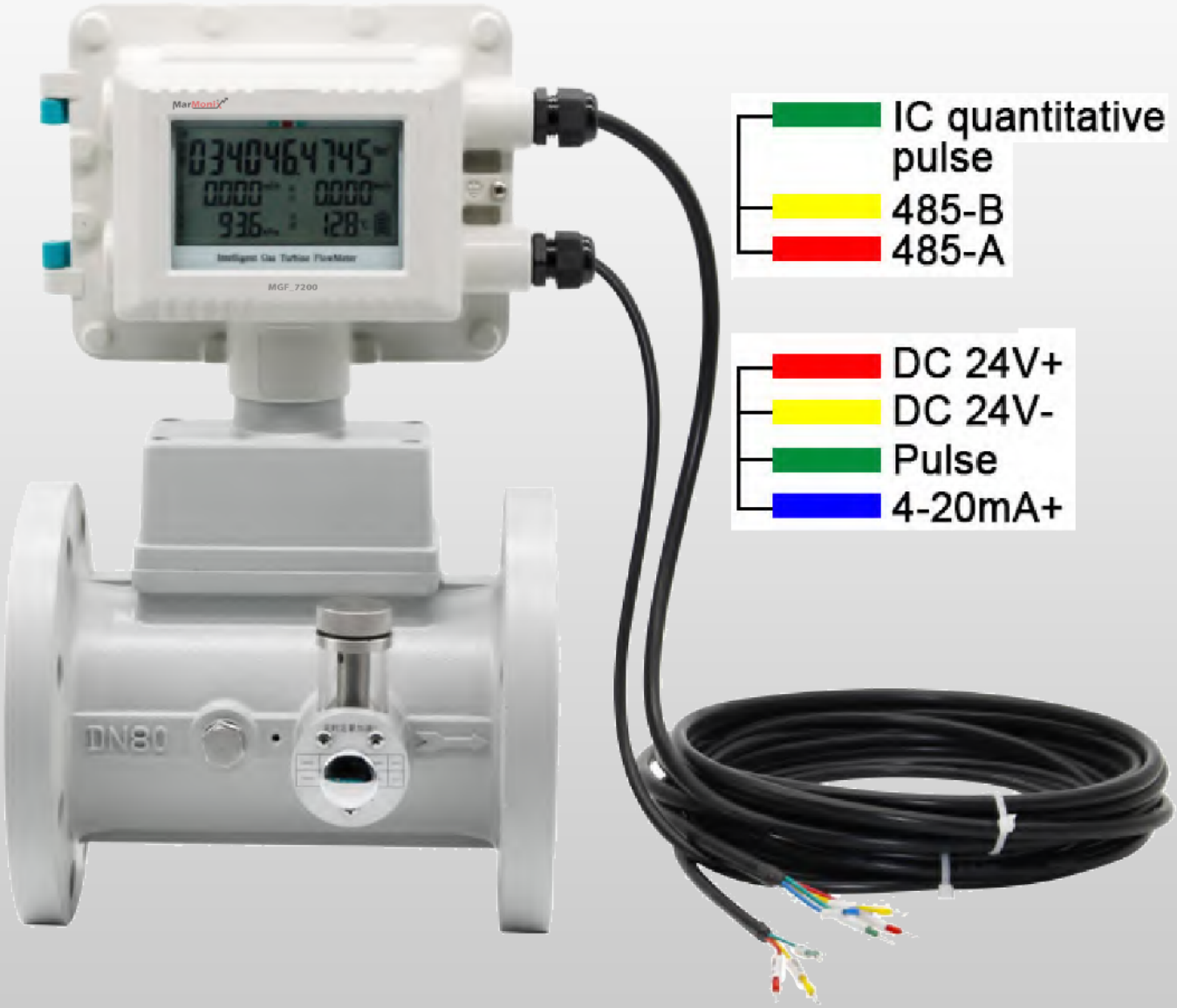
# DUAL POWER


**Dual Power Supply**

Micro-power consumption <1mW, Battery work life 5 years

**Flash Data Storage Technology**

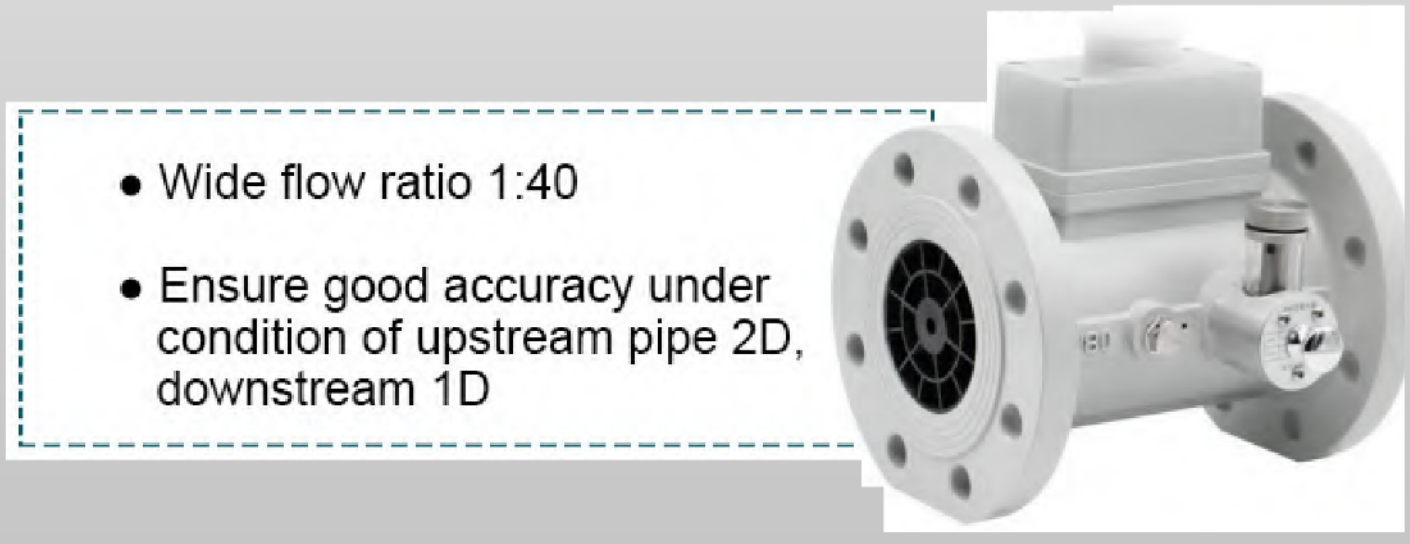
# MULTIPLE OUTPUT




- **Output signals 4-20mA, Pulse, RS485 and alarm**
- **IC card quantitative pulse signal**

## ALUMINUM ALLOY IMPELLER


## RECTIFIER STRUCTURE



## SPECIFIC OIL INJECTION STRUCTURE


Easy oil filling operation

Ensure bearings work smoothly

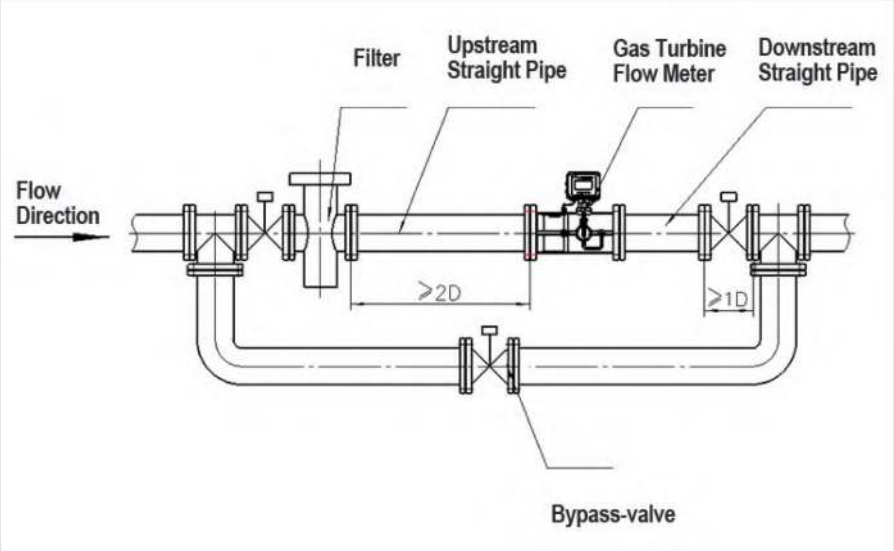
## SPECIFICATION

| Nominal Diameter | DN25-DN400 |
|---|---|
| **Nominal Pressure** | 1.0Mpa/1.6Mpa/2.5Mpa/4.0Mpa |
| **Range Ratio** | Max 40:1 (under P=101.325 Kpa, T=293.15K) |
| **Accuracy** | 1.5% (standard), 1.0 (optional) |
| **Repeatability** | Better than 0.2% |
| **Explosion Proof** | ExiallCT6Ga |
| **Protection** | Ip65 |
| **Shell material** | Aluminum Alloy/ Carbon Steel/Stainless Steel |
| **Power Supply** | 3.6 Lithium Battery Powered<br>External power DC18-30V |
| **Output Signal** | 4-20mA,Pulse, Alarm |
| **Communication** | RS 485 Modbus RTU |

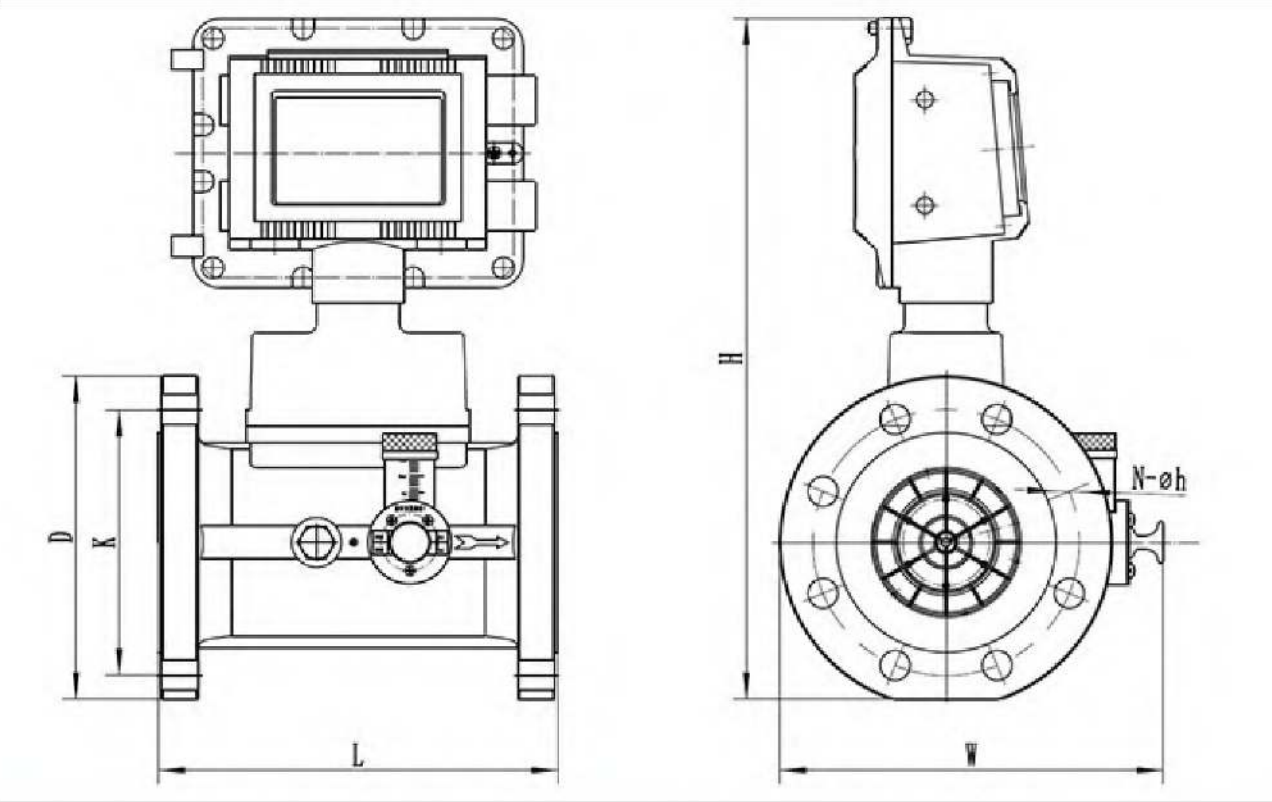
## MODEL SELECTION

| QTWG | Parameters | XXX | X | X | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|---|
| Size (mm) | DN25-DN400mm | | | | | | | | |
| Accuracy | 1.5% (standard) | | 1 | | | | | | |
| | 1.0% | | 2 | | | | | | |
| Nominal Pressure | 1.0MPa | | | 1 | | | | | |
| | 1.6MPa | | | 2 | | | | | |
| | 2.5MPa | | | 3 | | | | | |
| | 4.0MPa | | | 4 | | | | | |
| | Others | | | 5 | | | | | |
| Body Material | Aluminum Alloy (For size below DN150mm) | | | | | 1 | | | |
| | Carbon Steel | | | | | 2 | | | |
| | Stainless Steel | | | | | 3 | | | |
| Output/ Communication | Pluse+4-20mA | | | | | | 1 | | |
| | Pulse+4~20mA+485 | | | | | | 3 | | |
| | Pulse+4~ 20mA+HART | | | | | | 4 | | |
| Power Supply | Battery Powered+ External Power DC24V (two wire) | | | | | | | 1 | |
| | Battery Powered+ External Power DC24V (three-wire) | | | | | | | 2 | |
| EX-proof | With | | | | | | | | 1 |
| | Without | | | | | | | | 2 |

## INSTALLATION



## DIMENTION




| Size | L | D | K | N-Øh | H | W | Remarks |
|---|---|---|---|---|---|---|---|
| DN25(1") | 200 | 115 | 85 | 4-ϕ14 | 335 | 200 | 1.Flange information according to PN16 GB113.1-2000<br>2.Other flange are available |
| DN40(1 1/2") | 200 | 150 | 110 | 4-ϕ18 | 365 | 230 | |
| DN50(2") | 150 | 165 | 125 | 4-ϕ18 | 375 | 275 | |
| DN80(3") | 240 | 200 | 160 | 8-ϕ18 | 409 | 280 | |
| DN100(4") | 300 | 220 | 180 | 8-ϕ18 | 430 | 285 | |
| DN150(6") | 450 | 285 | 240 | 8- ϕ22 | 495 | 370 | |
| DN200(8") | 600 | 340 | 295 | 12- ϕ22 | 559 | 390 | |
| DN250(10") | 750 | 405 | 355 | 12- ϕ26 | 629 | 480 | |
| DN300(12") | 900 | 460 | 410 | 12- ϕ26 | 680 | 535 | |
| DN400(16") | 1200 | 580 | 525 | 16- ϕ30 | 793 | 665 | |

# FLOW RANGE

| DN (mm/inch) | Model | Flow specifi-cation | Flow range (m3/h) | Qmin (m3/h) | Max.pressure loss (Kpa) | Shell ma-terial | Weight(kg) |
|---|---|---|---|---|---|---|---|
| DN25(1") | QTWG-25(A) | G50 | 5-50 | ≤1 | 1 | ≤1.6MPa Aluminum Alloy ≥ 2.0MPa Carbon steel or SS304 | 7 |
| DN40(1 1/2") | QTWG-40(A) | G60 | 6-60 | ≤1 | 1 | | 8 |
| DN50(2") | QTWG-50(A) | G40 | 6.5-65 | ≤1.3 | 0.9 | | 8.5 |
| | QTWG-50(B) | G65 | 8-100 | ≤1.6 | 0.8 | | |
| | QTWG-50(C) | G100 | 10-160 | ≤2.4 | 2.0 | | |
| DN80(3") | QTWG-80(A) | G100 | 8-160 | ≤2.4 | 1.0 | | 9.5 |
| | QTWG-80(B) | G160 | 13-250 | ≤3.0 | 1.6 | | |
| | QTWG-80(C) | G250 | 20-400 | ≤5.0 | 2.0 | | |
| DN100(4") | QTWG-100(A) | G160 | 13-250 | ≤3.3 | 1.0 | | 15 |
| | QTWG-100(B) | G250 | 20-400 | ≤4.2 | 1.6 | | |
| | QTWG-100(C) | G400 | 32-650 | ≤6.7 | 1.8 | | |
| DN150(6") | QTWG-150(A) | G400 | 32-650 | ≤7.8 | 1.6 | | 27 |
| | QTWG-150(B) | G650 | 50-1000 | ≤10 | 2.0 | | |
| | QTWG-150(C) | G1000 | 80-1600 | ≤12 | 2.3 | | |
| DN200(8") | QTWG-200(A) | G650 | 130-2500 | ≤13 | 1.6 | Carbon Steel or SS304 | 45 |
| | QTWG-200(B) | G1000 | 80-1600 | ≤16 | 2.0 | | |
| | QTWG-200(C) | G1600 | 130-2500 | ≤20 | 2.2 | | |
| DN250(10") | QTWG-250(A) | G100 | 200-4000 | ≤20 | 1.2 | | 128 |
| | QTWG-250(B) | G1600 | 130-2500 | ≤22 | 2.0 | | |
| | QTWG-250(C) | G2500 | 200-4000 | ≤25 | 2.3 | | |
| DN300(12") | QTWG-300(A) | G1600 | 130-2500 | ≤22 | 1.6 | | 265 |
| | QTWG-300(B) | G2500 | 200-4000 | ≤25 | 2.0 | | |
| | QTWG-300(C) | G4000 | 320-6500 | ≤35 | 2.3 | | |
| DN400(16") | QTWG-400(A) | G1600 | 300-2500 | ≤25 | 1.8 | | 380 |
| | QTWG-400(B) | G2500 | 500-4000 | ≤35 | 2.0 | | |
| | QTWG-400(C) | G4000 | 600-8000 | ≤40 | 2.3 | | |