

# HONEYWELL ELSTER M2R 25 PN1/PN5

Two-stage gas pressure regulator  
Inlet pressure 1 bar and 5 bar  
nominal size DN 25

**Application:** Domestic

**Brief Information:** The M2R 25 regulator was specially developed for the gas supply of residential buildings. Outstanding features are the good low load behaviour as well as the good dynamic behaviour in union with downstream appliances. The modular structure of the device allows it to be adapted to a wide variety of requirements. Each device is perfectly specialized for the respective inlet pressure range:

M2R5 25: Optimized performance between 0.2 and 5 bar.

M2R1 25: Power reserve at low inlet pressures up to 1 bar.

Optionally, a gas flow monitor function can be integrated in the two-stage M2R 25 gas pressure regulator. This allows the cost-effective implementation of the requirements of the G600 (TRGI), with regard to the increase of security against manipulation in the house installation. With the help of this integrated solution, the requirements for protecting the domestic gas installation can be met without additional installation effort. The devices have an approval according to DIN 33822 and the EC type examination Pressure equipment directive 97/23 / EG.

Registration numbers: DG-4301AT0027 and CE-0085BN0496

## Technical Data:

- Version M2R1: inlet pressure range  $p_u$  26 mbar to 1 bar
- Version M2R5: inlet pressure range  $p_u$  200 mbar to 5 bar
- Output pressure range  $p_{ds}$  20 to 50 mbar (different adjustment springs required)
- Minimum pressure difference  $\Delta p_{min}$  4 mbar (PN 1)
- Gas flow monitor (GS) PN5:  $V_n$  2.5; 4; 6; 10 m<sup>3</sup> / h (optional)
- Factory preset and checked
- Switching range 115% to 180% of  $V_n$

Horizontal / vertical installation regardless of location.



## FEATURES & BENEFITS

### Main Features

- Tension-proof thanks to modular structure
- Very good low-load behaviour
- Integrated safety shut-off valve (SAV)
- SAV adjustable from the outside
- Integrated gas shortage protection (M)
- Sealable test opening
- Sieve in the entrance
- Operating temperatures from -20 ° C to +60 ° C
- Increased thermal load capacity (HTB)
- Pre-pressure resistant up to 16 bar
- Screwed to prevent tampering

### Options

- Integrated safety relief valve (SBV)
- Integrated gas flow monitor (GS) for  $V_n$  2.5, 4, 6, 10 m<sup>3</sup> / h
- Connection options
  - Flange (F)
  - Thread (G)
  - Flange / thread (F-G)
  - Single tube (E)
  - Inlet flanges with M12 threaded holes for passive securing.

### Control and closing pressure groups

| Regulator             |            |                        | Safety Shut      |               | Safety relief   |               |
|-----------------------|------------|------------------------|------------------|---------------|-----------------|---------------|
| Outlet pressure range | Rule group | Closing pressure group | Leadership area  | Contact group | Leadership area | Contact group |
| (mbar)                | %          | %                      | (mbar)           | %             | (mbar)          | %             |
| $P_{ds}$ 20-50        | AC10       | SG20                   | $P_{dso}$ 60-110 | AG0 10        | $P_{dso}$ 40-70 | 10            |

### Ordering Example:

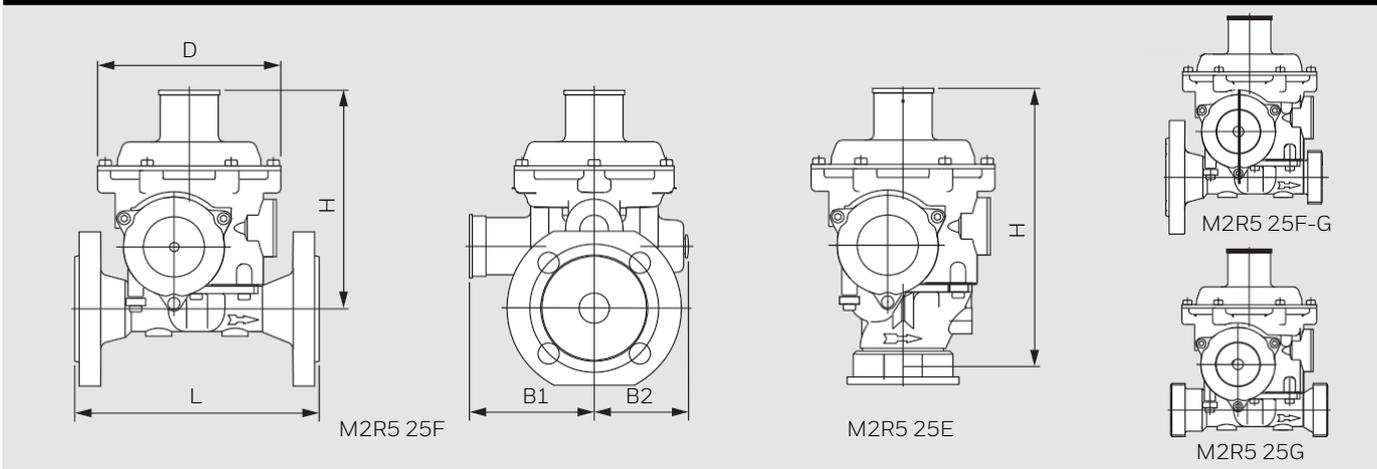
Gas pressure regulator M2R1 25 MF with upper shutdown and integrated low gas protection, connection type flange

- Inlet pressure ... to ... mbar
- outlet pressure ... mbar
- Setting the safety shut-off valve upper cut-off point ... mbar
- Safety relief valve setting ... mbar (optional)
- Switching capacity gas flow monitor (optional)

# MR 25 PN 1 / PN 5

Two-stage gas pressure regulator, inlet pressure 1 bar and 5 bar, nominal diameter DN 25

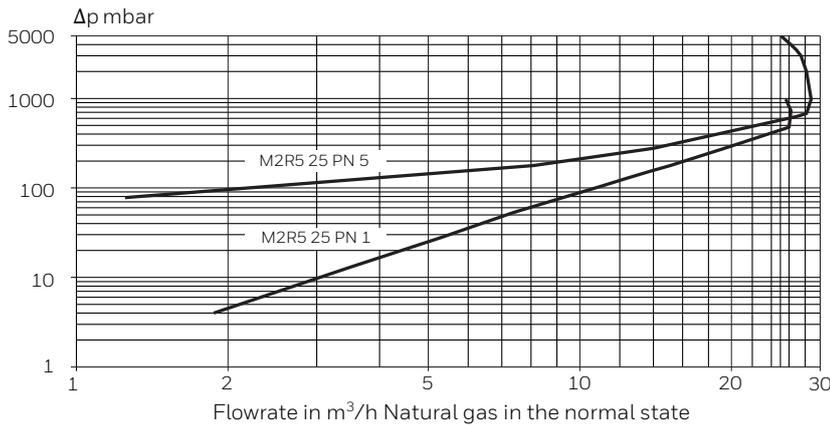
## Technical data, dimensions and weights



| Type        | p <sub>umax</sub> | Natural gas flow(m <sup>3</sup> /h)       |                   | Connection |         |         | Dimensions (mm) |    |    |     |     | Weight (kg) |
|-------------|-------------------|---|-------------------|------------|---------|---------|-----------------|----|----|-----|-----|-------------|
|             |                   | Q <sub>max1</sub><br>(p <sub>u</sub> 200) | Q <sub>max3</sub> | Size       | Flanged | Screwed | D               | B1 | B2 | H   | L   |             |
| M2R5 25MG   | PN 5              | 8   | 25                | DN 25      | -       | G 1½    | 120             | 78 | 62 | 145 | 140 | 1.9         |
| M2R5 25MF   | PN 5              | 8   | 25                | DN 25      | PN 16   | -       | 120             | 78 | 62 | 145 | 160 | 3.7         |
| M2R5 25MF-G | PN 5              | 8   | 25                | DN 25      | -       | G 1½    | 120             | 78 | 62 | 145 | 140 | 2.5         |

| Type        | p <sub>umax</sub> | Natural gas flow(m <sup>3</sup> /h)      |                   | Connection |               |         | Dimensions (mm) |    |    |     |     | Weight (kg) |
|-------------|-------------------|--|-------------------|------------|---------------|---------|-----------------|----|----|-----|-----|-------------|
|             |                   | Q <sub>max1</sub><br>(p <sub>u</sub> 26) | Q <sub>max3</sub> | Size       | Flanged       | Screwed | D               | B1 | B2 | H   | L   |             |
| M2R1 25MG   | PN1               | 2  | 25                | DN 25      | -             | G 1½    | 120             | 78 | 62 | 145 | 140 | 1.9         |
| M2R1 25MF   | PN1               | 2  | 25                | DN 25      | PN 16         | -       | 120             | 78 | 62 | 145 | 160 | 3.7         |
| M2R1 25MF-G | PN1               | 2  | 25                | DN 25      | PN 16         | G 1½    | 120             | 78 | 62 | 145 | 140 | 2.5         |
| M2R1 25ME   | PN1               | 2  | 25                | DN 25      | Coaxial<br>G2 | -       | 120             | 78 | 62 | 145 | -   | 1.8         |

### Capacity



### Inlet Pressure Range GS

| Inlet Pressure range for GS<br>p <sub>u</sub> [mbar] | Inlet Pressure Range GS |                |
|--|-------------------------|----------------|
|  | M2R 25<br>F/G/F-G GS    | M2R 25<br>E GS |
| GS 2.5<br>green                                      | 50-5000                 | 50-1000        |
| GS 4<br>yellow                                       | 50-5000                 | 50-1000        |
| GS 6<br>red  | 70-5000                 | 70-1000        |
| GS 10<br>blue  | 200-5000                | 200-1000       |

Colour coding of the devices according to the table

### For more information

[www.smartenergy.honeywell.com](http://www.smartenergy.honeywell.com)

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