

# KM 300/600-2M, KM 300/600-3M



-2M



-3M

**Gas mixing systems for 2 or 3 defined gases especially for flow packing machines or other continuous packaging processes in the food industry.**

Capacity range up to approx. 717 NL/min.  
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

## Benefits

### Easy operation

- a proportional mixing valve (-2) or three single mixing valves (-3), each with a control knob and %-scale, provide infinitely variable mixture settings
- the flow of the gas mixture is controlled by a metering valve combined with a flow meter

### Constant quality

- independent of pressure fluctuations in the gas supply
- independent of packing speed (in permitted range)

### High process reliability

- alarm module NXT+: integrated inlet pressure monitoring with digital display for pressure (with analog pressure transmitters) plus optical alarm, adjustable alarm limits, obligation of acknowledgement, protection of alarms, interfaces for controlling external alarms etc.
- lockable transparent door for protection of settings

### Maximum hygiene

- splash-proof and robust stainless steel housing
- smooth and easy to clean surface

**Other models, options and accessories available upon request.**

**Please identify the individual gases at the time of enquiring!**

**Technical data overleaf**



# KM 300/600-2M, KM 300/600-3M

| Technical Data                                |  |
|---|--|
| Type  | KM 300/600-2M; KM 300/600-3M   |
| Gases   | N <sub>2</sub> , CO <sub>2</sub> , O <sub>2</sub><br>not for flammable gases!  |
| Mixing range                                  | 0 – 100%   |
| Pressure settings                             | see tables   |
| Inlet pressure differential between the gases | max. 3 bar   |
| Mixture output (air)                          | see tables<br>min. mixture output = 1/5 of the max. mixture output   |
| Setting accuracy                              | ±2% abs. (scale 0 – 100%)  |
| Mixing precision                              | better than ±1% abs.   |
| Gas connections                               | inlets: G 1/2 RH with cone, hose nipple 11 mm<br>outlet: G 1/2 RH with cone, hose nipple 11 mm   |
| Housing                                       | stainless steel, splash proof  |
| Weight  | approx. 30 kg (-2), approx. 35 kg (-3)   |
| Dimensions (HxWxD)                            | approx. 330 x 485 x 500 mm (12.99 x 19.09 x 19.68 inches) (without connections)  |
| Voltage                                       | 230 V AC, 110 V AC or 24 V DC  |
| Power consumption                             | 230 V AC, 0.02 A<br>110 V AC, 0.04 A<br>24 V DC, 0.06 A  |
| Approvals                                     | Company certified according to ISO 9001 and ISO 22000<br>CE-marked according to: <ul style="list-style-type: none"> <li>- EMC 2004/108/EC</li> <li>- Low Voltage Directive 2006/95/EC</li> </ul> for food-grade gases according to: - Regulation (EC) No 1935/2004 |

| Flow KM 300 (in NI/min) in relation to CO <sub>2</sub> outlet pressure in barg |   | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
|--|---|-----|-----|-----|-----|-----|-----|-----|-----|
| min. inlet pressure in barg (max. 13 bar)                                      | 2 | 133 | -   | -   | -   | -   | -   | -   | -   |
|  | 3 | -   | 193 | -   | -   | -   | -   | -   | -   |
|  | 4 | -   | -   | 300 | -   | -   | -   | -   | -   |
|  | 5 | -   | -   | -   | 334 | -   | -   | -   | -   |
|  | 6 | -   | -   | -   | -   | 365 | -   | -   | -   |
|  | 7 | -   | -   | -   | -   | -   | 395 | -   | -   |
|  | 8 | -   | -   | -   | -   | -   | -   | 421 | -   |
|  | 9 | -   | -   | -   | -   | -   | -   | -   | 447 |

**Note:**  
Reduced mixture output in case of higher outlet pressures

| Flow KM 600 (in NI/min) in relation to CO <sub>2</sub> outlet pressure in barg |   | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
|--|---|-----|-----|-----|-----|-----|-----|-----|-----|
| min. inlet pressure in barg (max. 13 bar)                                      | 2 | 151 | -   | -   | -   | -   | -   | -   | -   |
|  | 3 | -   | 246 | -   | -   | -   | -   | -   | -   |
|  | 4 | -   | -   | 344 | -   | -   | -   | -   | -   |
|  | 5 | -   | -   | -   | 423 | -   | -   | -   | -   |
|  | 6 | -   | -   | -   | -   | 511 | -   | -   | -   |
|  | 7 | -   | -   | -   | -   | -   | 587 | -   | -   |
|  | 8 | -   | -   | -   | -   | -   | -   | 658 | -   |
|  | 9 | -   | -   | -   | -   | -   | -   | -   | 717 |

**Note:**  
Reduced mixture output in case of higher outlet pressures