



## MKAS

The flexible analyzer system for process- and emission-measurement applications

**CONTINUOUS EMISSION MONITORING SYSTEMS (CEMS)**

**SICK**  
Sensor Intelligence.



**Technical data overview**

|                                      |   |
|--------------------------------------|---|
| <b>Measured values</b>               | O <sub>2</sub> , CO, NO, NO <sub>x</sub> , SO <sub>2</sub> , Ar, CBrF <sub>3</sub> , CClF <sub>3</sub> , CCl <sub>2</sub> F <sub>2</sub> , CCl <sub>3</sub> F, CHClF <sub>2</sub> , CHCl <sub>3</sub> , CH <sub>2</sub> Cl <sub>2</sub> , CH <sub>2</sub> O, CH <sub>3</sub> Cl, CH <sub>3</sub> OH, (CH <sub>3</sub> ) <sub>2</sub> O, CH <sub>4</sub> , CO, CO <sub>2</sub> , CS <sub>2</sub> , C <sub>2</sub> Cl <sub>2</sub> F <sub>4</sub> , C <sub>2</sub> Cl <sub>3</sub> F <sub>3</sub> , C <sub>2</sub> Cl <sub>4</sub> , C <sub>2</sub> HCl <sub>3</sub> , C <sub>2</sub> H <sub>2</sub> , C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> , C <sub>2</sub> H <sub>2</sub> F <sub>4</sub> , C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> , C <sub>2</sub> H <sub>4</sub> , C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub> , C <sub>2</sub> H <sub>5</sub> OH, C <sub>2</sub> H <sub>6</sub> , C <sub>3</sub> H <sub>4</sub> , C <sub>3</sub> H <sub>6</sub> , C <sub>3</sub> H <sub>7</sub> OH, C <sub>3</sub> H <sub>8</sub> , C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> , C <sub>4</sub> H <sub>6</sub> , C <sub>4</sub> H <sub>8</sub> , C <sub>4</sub> H <sub>10</sub> , C <sub>4</sub> H <sub>8</sub> O, C <sub>4</sub> H <sub>9</sub> OH, C <sub>5</sub> H <sub>12</sub> , C <sub>6</sub> H <sub>10</sub> O, C <sub>6</sub> H <sub>12</sub> , C <sub>6</sub> H <sub>14</sub> , C <sub>7</sub> H <sub>16</sub> , C <sub>7</sub> H <sub>8</sub> , C <sub>8</sub> H <sub>10</sub> , He, H <sub>2</sub> , H <sub>2</sub> O, NH <sub>3</sub> , SF <sub>6</sub> , N <sub>2</sub> O |
| <b>Performance-tested measurands</b> | CO, NO, O <sub>2</sub> , SO <sub>2</sub> , CH <sub>4</sub> , CO, CO <sub>2</sub> , NO, NO <sub>2</sub> , C <sub>org</sub>   |
| <b>Measurement principles</b>        | Cold extractive   |
| <b>Gas flow rate</b>                 | Standard version: 30 l/h ... 60 l/h<br>60 l/h ... 100 l/h<br>With bypass pump: 30 l/h ... 250 l/h   |
| <b>Ambient temperature</b>           | Standard version: +5 °C ... +35 °C<br>Without direct sun exposure<br>With cooling device: +5 °C ... +50 °C<br>Without direct sun exposure   |
| <b>Enclosure rating</b>              | Standard version IP54<br>With cooling device IP34   |

**Product description**

The MKAS gas analyzer system is used to measure a wide variety of exhaust gas parameters. The MKAS can be individually configured to suit the application-specific requirements. Whether used as a continuous emission monitoring system (CEMS) or as a process gas analyzer system (PGA), the individual system components can be precisely tailored to customer requirements. MKAS is available in a standard size or as a space-saving compact version.

**At a glance**

- Analyzers and measured parameters can be retrofitted at any time
- Available in a standard size or as a space-saving compact version
- Meets the requirements for an automated measurement system (AMS) according to EU standards
- Sample gas bypass for very short response times

**Your benefits**

- Customizable to the measuring task thanks to the modular design
- Proven system components ensures high reliability
- Comprehensive service packages available (incl. installation and commissioning)

**Fields of application**

- Measurements in raw or clean gas
- Measurements in process gases
- Emissions monitoring, compliant with current EU directives

**Ordering information**

Other models and accessories → [www.sick.com/MKAS](http://www.sick.com/MKAS)

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)