Introduction

Device model and validity

This supplement describes changes implemented for the ULTRAMAT 23 between May 2014 and November 2015. These changes are not yet contained in the ULTRAMAT 23 manual C79000-G5276-C216-05. If these changes are not valid for all device variants, those affected are explicitly stated in the description. This particularly applies to the newly introduced variant with specially cleaned gas path (Cleaned for O₂; MLFB 7MB233x-xxxxx-xxxxx-Z +B06).

The following chapters and sections of the manual C79000-G5276-C216-05 are affected by the contents of this supplement:

Section 3.1 'Special versions' supplemented by the variant 'Cleaned for O₂'
Section 3.4.3
- Changes in the technical specifications of the infrared detector
- Changes in the deviating data of the measuring range 0 ... 200 mg/m³ SO₂
- Changes in the deviating data of the measuring range 0 ... 100 mg/m³ SO₂
Section 3.5.1 Section updated
Chapter 4 Safety note 'Strong vibrations' updated
Section 5.1.3 New section - applies to the device variant with specially cleaned gas path (Cleaned for O₂)
Section 7.4.3.1 Section updated
Section 8.4.2.1 Section updated
Chapter 13 New spare parts introduced for the variant -B06 (Cleaned for O₂)
Section 13.2 New spare part 'connecting socket' introduced
Section A.3 Latest versions of standards considered

To operate this device safely, the standard ULTRAMAT 23 manual (C79000-G5276-C216), edition 05, must be observed. The operating instructions A5E03084511 or A5E37540373 must also be observed for devices intended for use in hazardous areas in accordance with ATEX. This particularly applies to the warnings and safety information provided there.
Product information / technical update

Section 3.1

Special versions
The paragraph 'Special versions' is supplemented by:
Variant with specially cleaned gas path:
This variant is envisaged for the application 'Cleaned for O₂ service'.

Section 3.4.3
The technical specifications of the infrared detector change as follows:

<table>
<thead>
<tr>
<th>Time response</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warm-up period</td>
<td>Approx. 30 minutes at room temperature. The measured values are invalid for the first 30 minutes following switch-on. The maximum accuracy is achieved after approx. 2 hours. Following a brief power failure, the accuracy can be achieved as early as approx. 5 minutes after the warm-up period.</td>
</tr>
<tr>
<td>Delayed display (T₉₀ time)</td>
<td>Dependent on length of analyzer chamber, sample gas feed line and parameterizable attenuation</td>
</tr>
<tr>
<td>Damping (electronic time constant)</td>
<td>0 ... 99.9 s, adjustable</td>
</tr>
</tbody>
</table>

The following limitations result for the measuring range 0 ... 200 mg/m³ SO₂ compared to the data in the technical specifications in the manual:

## Deviations with measuring range 0 ... 200 mg/m³ SO₂
(analyzer versions 7MB2335-xNBxx-xAAx, 7MB2337-xNBxx-xxxx, 7MB2337-xxxxx-xNBx, 7MB2338-xxxxx-xNBx)

<table>
<thead>
<tr>
<th>Limitation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability</td>
<td>Max. 95 %</td>
</tr>
<tr>
<td>AUTOCAL cycle time</td>
<td>Max. 6 h</td>
</tr>
<tr>
<td>Temperature variations</td>
<td>Max. 1 °C (1.8 °F) The device must not be operated in an area subject to drafts. This is especially valid for the rear panel with large cooling element.</td>
</tr>
<tr>
<td>Other</td>
<td>This measuring range has not been suitability-tested.</td>
</tr>
</tbody>
</table>
The following limitations result for the measuring range 0 ... 100 mg/m³ SO₂ compared to the data in the technical specifications in the manual:

### Deviations with measuring range 0 ... 100 mg/m³ SO₂
(analyzer versions 7MB2335-xNTxx-xAAx, 7MB2337-xNTxx-xxxx, 7MB2337-xxxxx-xNTx, 7MB2338-xxxxx-xNTx)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deviation with measuring range</td>
<td>Depending on the external gas conditioning.</td>
</tr>
<tr>
<td>range 0 ... 100 mg/m³ SO₂</td>
<td></td>
</tr>
<tr>
<td>(analyzer versions 7MB2335-xNTxx-xAAx, 7MB2337-xNTxx-xxxx, 7MB2337-xxxxx-xNTx, 7MB2338-xxxxx-xNTx)</td>
<td></td>
</tr>
<tr>
<td>Linearity error</td>
<td>≤ 2 mg/m³ (2% of smallest measuring range)</td>
</tr>
<tr>
<td>Drift</td>
<td></td>
</tr>
<tr>
<td>With constant ambient conditions</td>
<td>≤ 0.33 mg/m³ per hour after a running-in period of 200 hours</td>
</tr>
<tr>
<td>After temperature jump</td>
<td>Not defined</td>
</tr>
<tr>
<td>Temperature influence</td>
<td>≤ 8 mg/m³ per 10 K deviation; additional drift after temperature jump</td>
</tr>
<tr>
<td>Influence of auxiliary power</td>
<td>≤ 0.4 mg/m³ with a change of ±10%</td>
</tr>
<tr>
<td>Influence of line frequency</td>
<td>≤ 8 mg/m³ with a change of ±5%</td>
</tr>
<tr>
<td>Cross-sensitivities</td>
<td>Refer to following table</td>
</tr>
<tr>
<td>Availability</td>
<td>Max. 95 %</td>
</tr>
<tr>
<td>AUTOCAL cycle time</td>
<td>Max. 3 h</td>
</tr>
<tr>
<td>Temperature variations</td>
<td>Max. 1 °C (1.8 °F)</td>
</tr>
<tr>
<td></td>
<td>The device must be operated at constant ambient temperatures. The device must not be operated in an area subject to drafts. This is especially valid for the rear panel with large cooling element.</td>
</tr>
<tr>
<td>Other</td>
<td>This measuring range has not been suitability-tested.</td>
</tr>
</tbody>
</table>

### Cross-sensitivities of measuring range 0 ... 100 mg/m³ SO₂
(analyzer versions 7MB2335-xNTxx-xAAx, 7MB2337-xNTxx-xxxx, 7MB2337-xxxxx-xNTx, 7MB2338-xxxxx-xNTx)

The cross-sensitivities have been optimized. Typical measurement results are:

<table>
<thead>
<tr>
<th>Measured component</th>
<th>mg/m³ Reference point</th>
<th>mg/m³ Reference point</th>
</tr>
</thead>
<tbody>
<tr>
<td>O₂ - 3 vol %</td>
<td>2.4</td>
<td>-1.2</td>
</tr>
<tr>
<td>O₂ - 21 vol %</td>
<td>1.2</td>
<td>-1.7</td>
</tr>
<tr>
<td>CO - 300 mg/m³</td>
<td>-3.5</td>
<td>-0.4</td>
</tr>
<tr>
<td>CO₂ - 15 vol %</td>
<td>-0.8</td>
<td>-0.6</td>
</tr>
<tr>
<td>CH₄ - 50 mg/m³</td>
<td>2.8</td>
<td>4.0</td>
</tr>
<tr>
<td>N₂O - 100 mg/m³</td>
<td>-1.2</td>
<td>-0.3</td>
</tr>
<tr>
<td>NO - 300 mg/m³</td>
<td>-1.3</td>
<td>1.9</td>
</tr>
<tr>
<td>NO₂ - 30 mg/m³</td>
<td>-1.2</td>
<td>-1.8</td>
</tr>
<tr>
<td>NH₃ - 20 mg/m³</td>
<td>-0.3</td>
<td>1.1</td>
</tr>
<tr>
<td>HCl - 200 mg/m³</td>
<td>-7.5</td>
<td>4.9</td>
</tr>
<tr>
<td>Water vapor at dew point 4 °C (39 °F)</td>
<td>1.5 mg/m³ per 1 °C (1.8 °F) variation in dew point</td>
<td></td>
</tr>
</tbody>
</table>
Section 3.5.1

Legend for the gas flow diagrams

1 Inlet for sample gas/calibration gas
2 Gas outlet
3 Inlet for AUTOCAL/zero gas or
   inlet for sample gas/calibration gas (channel 2)
4 Gas outlet (channel 2)
5 Enclosure purging
6 Inlet of atmospheric pressure sensor
7 Inlet of chopper compartment flushing
8 Condensation trap with filter
9 Fine safety filter *
10 Solenoid valve
11 Sample gas pump
12 Pressure switch
13 Flow indicator
14 IR analyzer unit
15 Safety condensation trap
16 Oxygen sensor (electrochemical)
17 Atmospheric pressure sensor
18 Hydrogen sulfide sensor
19 Oxygen sensor (paramagnetic)

* The variant with specially cleaned gas path (Cleaned for O₂; B06) does not contain a fine safety filter in the sample gas path

Chapter 4 - Installation

The following safety information has been updated:

⚠️ CAUTION

Strong vibrations

Strong vibrations could loosen connections or damage sensors, resulting in free passage of the sample gas into the environment.

Even weaker vibrations influence the result!

The analyzer must therefore only be used at a location which is free of vibration.
Section 5.1.3 - Variant with specially cleaned gas path (Cleaned for \text{O}_2)

In the version with the order suffix -B06 (Cleaned for \text{O}_2), all parts wetted by the sample gas are cleaned and absolutely grease-free.

| CAUTION |

\begin{itemize}
  \item \textbf{Ignition hazard}
  
  Because of the danger of ignition, all parts coming into contact with oxygen must be clean. This means they must be free of loose parts or parts which could become loose during operation and of foreign particles, especially oil, grease and solvents.
  
  Observe the following when working on analyzers with specially cleaned gas path:
  \begin{itemize}
    \item No clothing which is contaminated by oil or grease may be worn.
    \item The installation site must be clean and dust-free.
    \item Only parts which are packed and marked accordingly may be assembled.
    \item Always wash your hands before commencing work.
    \item The cleaned parts must only be handled on the surfaces which do not come into contact with the sample gas.
    \item New filters, new connecting hoses, and oil-free mixing equipment must \textbf{always} be used to check the analyzer function.
  \end{itemize}
\end{itemize}

Section 7.4.3.1

The ULTRAMAT 23 is provided with two code levels to protect against unauthorized or unintentional inputs. As soon as you call a function protected by a code for the first time, you will be requested to enter the three-digit code.

With the introduction of firmware version 2.15.06, you can now use letters and special characters for the code in addition to numbers.

\textbf{Note}

We recommend that you change the factory-set codes once you have become familiar with operation of the ULTRAMAT 23 (see section Configuration: Special functions: Changing the codes/language).

The lowest code level (level 1) is factory-set to "111", and the higher level (level 2) to "222".

The following objects are protected by the code of code level 1:

\begin{itemize}
  \item The dialogs "Logbook/faults" and "Maintenance requests" in the menu "Analyzer status", submenu "Status",
  \item the menu "Calibration",
  \item the menu "Parameters"
\end{itemize}

The following is protected by code level 2:

\begin{itemize}
  \item The menu "Configuration".
\end{itemize}

\textbf{Note}

If the analyzer requests that you enter code level 1, you can enter the code for level 2 instead to release this level. Code level 2 is then enabled at the same time. Level 1 is automatically enabled as soon as the higher code level 2 has been enabled.

Following input of a code, inputs are possible until the analyzer is recoded.

\textbf{Note}

In order to code the analyzer again when the input procedures have been finished (to protect against unauthorized and unintentional interventions), press the \textbf{<MEAS>} key in measuring mode.
Section 8.4.2.1

In the first two lines of this dialog, you can change the codes of the two code levels 1 and 2.

The factory settings for the two code levels are:

- Code level 1: **111**
- Code level 2: **222**

With the introduction of firmware version 2.15.06, you can now use letters and special characters for the code in addition to numbers. With all older firmware versions, you could only enter numbers.

You can also reduce the number of code levels by assigning the same code to both levels.

Since changes become effective immediately, we recommend that you make a note of the changed codes and keep this in a safe place.

In third line of this dialog you can change the language of the input dialogs. The analyzer is designed for the following languages:

- German
- English
- Spanish
- French
- Italian
- Polish

A change is immediately effective when you leave this dialog.
**Section 13.2**
The parts with numbers are available as spare parts. They are described in the corresponding table.

Image 1 19" rack unit

Image 2 19" rack unit with separate gas paths
## Part No. Designation | Order No. | Remarks
--- | --- | ---
9 | Pressure switch | C79302-Z1210-A2 |
9 | Pressure switch | A5E37371678 | Variant -B06 'Cleaned for O₂'
10 | Solenoid valve | C79451-A3494-B33 |
14 | Safety filter for sample gas | C79127-Z400-A1 |
15 | Safety filter for zero gas/chopper purging | C79127-Z400-A1 |
16 | Connecting socket | A5E36448145 |
16 | Connecting socket | A5E36448926 | Variant -B06 'Cleaned for O₂'
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Electrochemical oxygen sensor</td>
<td>C79451-A3458-B55</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Electrochemical oxygen sensor</td>
<td>A5E35951900</td>
<td>Variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>11</td>
<td>Flowmeter</td>
<td>C79402-Z560-T1</td>
<td>With mounting bracket</td>
</tr>
<tr>
<td>11</td>
<td>Flowmeter</td>
<td>A5E35980458</td>
<td>With mounting bracket, variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>12</td>
<td>Condensation trap</td>
<td>C79451-A3008-B43</td>
<td>With mounting bracket</td>
</tr>
<tr>
<td>12.1</td>
<td>Filter</td>
<td>C79451-A3008-B60</td>
<td>In the condensation trap, package size: 3 units</td>
</tr>
</tbody>
</table>
### Section 13.4

#### Image 6  Pump

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.1</td>
<td>Sample gas pump</td>
<td>C79451-A3494-B10</td>
<td>50 Hz</td>
</tr>
<tr>
<td>8.1</td>
<td>Sample gas pump</td>
<td>A5E35980470</td>
<td>50 Hz; for variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>8.2</td>
<td>Sample gas pump</td>
<td>C79451-A3494-B11</td>
<td>60 Hz</td>
</tr>
<tr>
<td>8.2</td>
<td>Sample gas pump</td>
<td>A5E35980528</td>
<td>60 Hz; for variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>8.3</td>
<td>Sealing set</td>
<td>C79402-Z666-E20</td>
<td>For sample gas pumps 8.1 and 8.2</td>
</tr>
<tr>
<td>8.3</td>
<td>Sealing set</td>
<td>A5E35980531</td>
<td>For sample gas pumps 8.1 and 8.2; variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>
Section 13.5.2 - 7MB2335-, 7MB2355-

Image 7  Analyzer unit 7MB2335-, 7MB2355-
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 *)</td>
<td>IR source</td>
<td>C79451-A3468-B206</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>Spacer</td>
<td>C79451-A3468-C20</td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>Optical filter</td>
<td>C79285-Z1491-C5</td>
<td>For NO **)</td>
</tr>
<tr>
<td>2.2</td>
<td>Optical filter</td>
<td>C79285-Z1302-A4</td>
<td>For SO₂ **)</td>
</tr>
<tr>
<td>2.2</td>
<td>Optical filter</td>
<td>C75285-Z1491-C2</td>
<td>For C₂H₄</td>
</tr>
<tr>
<td>2.2</td>
<td>Optical filter</td>
<td>A5E00069310</td>
<td>For C₆H₁₄</td>
</tr>
<tr>
<td>2.2</td>
<td>Optical filter</td>
<td>C79451-A3182-C161</td>
<td>For SF₆</td>
</tr>
<tr>
<td>2.2</td>
<td>Optical filter</td>
<td>C75285-Z1491-C4</td>
<td>For CO, MLFB 7MB2355</td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>C79451-A3468-B515</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>A5E35980538</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>C79451-A3468-B513</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>A5E35980542</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5.1</td>
<td>O-ring</td>
<td>C71121-Z100-A99</td>
<td></td>
</tr>
<tr>
<td>5.1</td>
<td>O-ring</td>
<td>A5E35980590</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber with O-ring</td>
<td>C79451-A3468-B231</td>
<td>180 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber with O-ring</td>
<td>A5E35982142</td>
<td>180 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber with O-ring</td>
<td>C79451-A3468-B232</td>
<td>90 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber with O-ring</td>
<td>A5E35982156</td>
<td>90 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber with O-ring</td>
<td>C79451-A3468-B233</td>
<td>60 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber with O-ring</td>
<td>A5E35982163</td>
<td>60 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber with O-ring</td>
<td>C79451-A3468-B234</td>
<td>20 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber with O-ring</td>
<td>A5E35982170</td>
<td>20 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B235</td>
<td>6 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E35982178</td>
<td>6 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B236</td>
<td>2 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E35982182</td>
<td>2 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>C79451-A3458-B500</td>
<td>For CO</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>A5E35983013</td>
<td>For CO; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>C79451-A3458-B508</td>
<td>For SO₂</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>A5E35983026</td>
<td>For SO₂; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>C79451-A3468-B541</td>
<td>For CO₂; smallest MR &lt;5%</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>A5E35983032</td>
<td>For CO₂; smallest MR &lt;5%; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>C79451-A3468-B542</td>
<td>For CH₄; smallest MR &lt;2%</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>A5E35983036</td>
<td>For CH₄; smallest MR &lt;2%; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>C79451-A3468-B553</td>
<td>For C₆H₁₄</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>A5E35983044</td>
<td>For C₆H₁₄; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>Part No.</td>
<td>Designation</td>
<td>Order No.</td>
<td>Remarks</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>-----------</td>
<td>---------</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B525</td>
<td>For CO; smallest MR &lt;5%</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35983110</td>
<td>For CO; smallest MR &lt;5%; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B528</td>
<td>For CO; smallest MR ≥5%</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35983122</td>
<td>For CO; smallest MR ≥5%; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E34729715</td>
<td>For CO, MLFB 7MB2355</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B536</td>
<td>For CO₂; smallest MR &lt;1000 vpm</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35983141</td>
<td>For CO₂; smallest MR &lt;1000 vpm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B526</td>
<td>For CO₂; smallest MR ≥1000 vpm</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35983146</td>
<td>For CO₂; smallest MR ≥1000 vpm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
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<td>C79451-A3468-B527</td>
<td>For CH₄; smallest MR &lt;20%</td>
</tr>
<tr>
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<td>Receiver chamber</td>
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<td>For CH₄; smallest MR &lt;20%; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
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<td>Receiver chamber</td>
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<td>For CH₄; smallest MR ≥20%</td>
</tr>
<tr>
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<td>For CH₄; smallest MR ≥20%; only variant -B06 'Cleaned for O₂'</td>
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<td>C79451-A3468-B537</td>
<td>For C₂H₆</td>
</tr>
<tr>
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<td>Receiver chamber</td>
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<td>For C₂H₆; only variant -B06 'Cleaned for O₂'</td>
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<td>Receiver chamber</td>
<td>C79451-A3468-B520</td>
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<tr>
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<td>For NO, MLFB 7MB2355</td>
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<td>For SO₂</td>
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<td>Receiver chamber</td>
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<td>For SO₂; only variant -B06 'Cleaned for O₂'</td>
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<td>For N₂O</td>
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<td>Receiver chamber</td>
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<td>For SF₆</td>
</tr>
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<td>For C₆H₁₄</td>
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<td>For C₆H₁₄; only variant -B06 'Cleaned for O₂'</td>
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*) Following replacement of this part, special work is required which can only be carried out by qualified personnel trained for this task, for example temperature compensation, basic electronic adjustment etc.

**) Following replacement of this part, the water vapor cross-sensitivity must be checked.
Section 13.5.3 - 7MB2337-, 7MB2357-

Image 8  Analyzer unit 7MB2337-, 7MB2357-
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<th>Remarks</th>
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<td>Optical filter</td>
<td>C79285-Z1302-A4</td>
<td>For SO2 **)</td>
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<td>Optical filter</td>
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<td>For C2H4</td>
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<td>For C6H14</td>
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<td>C79451-A3468-B516</td>
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<td>Chopper</td>
<td>A5E35984159</td>
<td>Only variant -B06 'Cleaned for O2'</td>
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<td>90 mm; only variant -B06 'Cleaned for O2'</td>
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<td>For CO2; smallest MR &lt;5%</td>
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<td>For C6H14, N2O 500/5000 vpm</td>
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<td>For C6H14, N2O 500/5000 vpm; only variant -B06 'Cleaned for O2'</td>
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<td>For CO; smallest MR ≥5%</td>
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<td>For CO₂; smallest MR &lt;1000 vpm</td>
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<tr>
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<td>For C₂H₆</td>
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<td>Receiver chamber</td>
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<td>For N₂O; only variant -B06 'Cleaned for O₂'</td>
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<td>For SF₆</td>
</tr>
<tr>
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<td>Receiver chamber</td>
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<td>For SF₆; only variant -B06 'Cleaned for O₂'</td>
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<tr>
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<td>For C₆H₁₄</td>
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<td>For C₆H₁₄; only variant -B06 'Cleaned for O₂'</td>
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</tbody>
</table>

*) Following replacement of this part, special work is required which can only be carried out by qualified personnel trained for this task, for example temperature compensation, basic electronic adjustment etc.

**) Following replacement of this part, the water vapor cross-sensitivity must be checked.
Section 13.5.4.1 - 7MB2338-; 7MB2358-xAxx-, -xAKxx-, -xABxx-, -xACxx-

Image 9  Analyzer unit 7MB2338-, 7MB2358-.xx--., -.xx--., -.xx--., -.xx--., configuration for CO/NO
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
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<td>Chopper</td>
<td>C79451-A3468-B516</td>
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<td>3 *)</td>
<td>Chopper</td>
<td>ASE35984159</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
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<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>C79451-A3468-B514</td>
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<td>Analyzer chamber -.AA.., -.AK..; 180 mm</td>
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<td>Analyzer chamber -.AA.., -.AK..; 180 mm;</td>
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<td>For NO (channel 1)</td>
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<td>Receiver chamber</td>
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<td>For NO (channel 1); only variant -B06 'Cleaned for O₂'</td>
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*) Following replacement of this part, special work is required which can only be carried out by qualified personnel trained for this task, for example temperature compensation, basic electronic adjustment etc.

**) Following replacement of this part, the water vapor cross-sensitivity must be checked.
Section 13.5.4.2 - 7MB2338-; 7MB2358-xADxx-

Third component is described in section 'Third component'
<table>
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<th>Remarks</th>
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<td>Only variant -B06 'Cleaned for O₂'</td>
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<td>Analyzer chamber 6 mm</td>
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<td>Analyzer chamber 6 mm; only variant -B06 'Cleaned for O₂'</td>
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<td>C79451-A3458-B500</td>
<td>For CO</td>
</tr>
<tr>
<td>6.1</td>
<td>Gas filter</td>
<td>A35E3983013</td>
<td>For CO; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B530</td>
<td>For CO</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A35984307</td>
<td>For CO; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5.2</td>
<td>Analyzer chamber with O-ring</td>
<td>C79451-A3468-B233</td>
<td>Analyzer chamber 60 mm</td>
</tr>
<tr>
<td>5.2.1</td>
<td>O-ring</td>
<td>C71212-Z100-A99</td>
<td></td>
</tr>
<tr>
<td>5.2.1</td>
<td>O-ring</td>
<td>A5E35980590</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>6.2</td>
<td>Gas filter</td>
<td>C79451-A3468-B542</td>
<td>For NO</td>
</tr>
<tr>
<td>6.2</td>
<td>Gas filter</td>
<td>A5E35983036</td>
<td>For NO; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>8</td>
<td>Optical filter</td>
<td>C79451-A3458-B103</td>
<td>For NO **</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B520</td>
<td>For NO (channel 1)</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>A5E35983178</td>
<td>For NO (channel 1); only variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>

*) Following replacement of this part, special work is required which can only be carried out by qualified personnel trained for this task, for example temperature compensation, basic electronic adjustment etc.

**) Following replacement of this part, the water vapor cross-sensitivity must be checked.
Section 13.5.4.3 - 7MB2338-; 7MB2358-xDCxx

Image 11  Analyzer unit 7MB2338-, 7MB2358-:DC..., configuration for CO₂/NO
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 *)</td>
<td>IR source</td>
<td>C79451-A3468-B206</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>C79451-A3468-B516</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>A5E 35984159</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>C79451-A3468-B514</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>CA5E 35984162</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B235</td>
<td>Analyzer chamber 6 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E 35982178</td>
<td>Analyzer chamber 6 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B531</td>
<td>For CO₂</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E 35984315</td>
<td>For CO₂; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7.1</td>
<td>Optical filter with filter support</td>
<td>A5E 00502911</td>
<td></td>
</tr>
<tr>
<td>7.1</td>
<td>Optical filter with filter support</td>
<td>A5E 35984319</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber with O-ring</td>
<td>C79451-A3468-B231</td>
<td>Analyzer chamber 180 mm</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber with O-ring</td>
<td>A5E 35982142</td>
<td>Analyzer chamber 180 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>8.1</td>
<td>O-ring</td>
<td>C71121-Z100-A99</td>
<td></td>
</tr>
<tr>
<td>8.1</td>
<td>O-ring</td>
<td>A5E 35980590</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B520</td>
<td>For NO (channel 1)</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>A5E 35983178</td>
<td>For NO (channel 1); only variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>

*) Following replacement of this part, special work is required which can only be carried out by qualified personnel trained for this task, for example temperature compensation, basic electronic adjustment etc.
Section 13.5.4.4 - 7MB2338--; 7MB2358-xBAxx, -xBDxx, -xCBxx,

Third component is described in section "Third component"

Image 12  Analyzer unit 7MB2338-, 7MB2358-.BA.., -.BD..-, -.CB..-, analyzer unit 1 CO/CO₂ and CO₂/CH₄
### 7MB2338-, 7MB2358-.BA..-, -.BD..-, -.CB..-

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 *)</td>
<td>IR source</td>
<td>C79451-A3468-B206</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>C79451-A3468-B516</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>A5E35984159</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>C79451-A3468-B514</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>CA5E35984162</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>

### 7MB2338-, 7MB2358-.BA..-, -.BD..-

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B236</td>
<td>Analyzer chamber 2 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E35982182</td>
<td>Analyzer chamber 2 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B532</td>
<td>For CO</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35984327</td>
<td>For CO; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B526</td>
<td>For CO₂</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>A5E35983146</td>
<td>For CO₂; only variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>

### 7MB2338-, 7MB2358-.CB..-

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B235</td>
<td>Analyzer chamber 6 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E35982178</td>
<td>6 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B531</td>
<td>For CO₂</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35984315</td>
<td>For CO₂; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B527</td>
<td>For CH₄</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>A5E35983151</td>
<td>For CH₄; only variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>

*) Following replacement of this part, special work is required which can only be carried out by qualified personnel trained for this task, for example temperature compensation, basic electronic adjustment etc.
Section 13.5.4.5 - 7MB2338-, 7MB2358-xBBxx-, -xCAxx-
### 7MB2338-, 7MB2358-.BB..-, -CA..-

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 *)</td>
<td>IR source</td>
<td>C79451-A3468-B206</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>C79451-A3468-B516</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>A5E35984159</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>C79451-A3468-B514</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>CA5E35984162</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
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</table>

### 7MB2338-, 7MB2358-.BB..-

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451--A3468-B236</td>
<td>Analyzer chamber 2 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E35982182</td>
<td>Analyzer chamber 2 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B532</td>
<td>For CO</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35984327</td>
<td>For CO; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>8.1</td>
<td>O-ring</td>
<td>C71121-Z100-A99</td>
<td></td>
</tr>
<tr>
<td>8.1</td>
<td>O-ring</td>
<td>A5E35980590</td>
<td>Only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B234</td>
<td>Analyzer chamber 20 mm</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber</td>
<td>A5E35982170</td>
<td>Analyzer chamber 20 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B526</td>
<td>For CO₂</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>A5E35983146</td>
<td>For CO₂; only variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>

### 7MB2338, 7MB2358-.CA..-

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B235</td>
<td>Analyzer chamber 6 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E35982178</td>
<td>Analyzer chamber 6 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B531</td>
<td>For CO₂</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35984315</td>
<td>For CO₂; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B235</td>
<td>Analyzer chamber 6 mm</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber</td>
<td>A5E35982178</td>
<td>Analyzer chamber 6 mm; only variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B527</td>
<td>For CH₄</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>A5E35983151</td>
<td>For CH₄; only variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>

*) Following replacement of this part, special work is required which can only be carried out by qualified personnel trained for this task, for example temperature compensation, basic electronic adjustment etc.
Section 13.5.4.6 - 7MB2338-; 7MB2358-xBJ xx-, xBKxx-, -xBLxx- 

Image 14  Analyzer unit 7MB2338-, 7MB2358-.BJ ..-, -.BK..-, -.BL..-, analyzer unit 1 for CO₂/CO
### 7MB2338-, 7MB2358-.BJ..-, -.BK..-, -.BL..- for CO\(_2\)/CO

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 *)</td>
<td>IR source</td>
<td>C79451-A3468-B206</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>C79451-A3468-B516</td>
<td></td>
</tr>
<tr>
<td>3 *)</td>
<td>Chopper</td>
<td>A5E35984159</td>
<td>Only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>C79451-A3468-B514</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Plate with threaded bolts and windows</td>
<td>CA5E35984162</td>
<td>Only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
</tbody>
</table>

### 7MB2338-, 7MB2358-.BK..- for CO\(_2\)/CO

<table>
<thead>
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<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B236</td>
<td>Analyzer chamber 2 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E35982182</td>
<td>Analyzer chamber 2 mm; only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B531</td>
<td>For CO(_2)</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35984315</td>
<td>For CO(_2); only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>8.1</td>
<td>O-ring</td>
<td>C71121-Z100-A99</td>
<td></td>
</tr>
<tr>
<td>8.1</td>
<td>O-ring</td>
<td>A5E35980590</td>
<td>Only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber with O-ring</td>
<td>C79451-A3468-B234</td>
<td>Analyzer chamber 20 mm</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber with O-ring</td>
<td>A5E35982170</td>
<td>Analyzer chamber 20 mm; only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>C79451-A3458-B500</td>
<td>For CO</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>A5E35983013</td>
<td>For CO; only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B528</td>
<td>For CO</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>A5E35983122</td>
<td>For CO; only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
</tbody>
</table>

### 7MB2338-, 7MB2358-.BL..- for CO\(_2\)/CO

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>C79451-A3468-B235</td>
<td>Analyzer chamber 6 mm</td>
</tr>
<tr>
<td>5</td>
<td>Analyzer chamber</td>
<td>A5E35982178</td>
<td>6 mm; only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B531</td>
<td>For CO(_2)</td>
</tr>
<tr>
<td>7 *)</td>
<td>Receiver chamber</td>
<td>A5E35984315</td>
<td>For CO(_2); only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>8.1</td>
<td>O-ring</td>
<td>C71121-Z100-A99</td>
<td></td>
</tr>
<tr>
<td>8.1</td>
<td>O-ring</td>
<td>A5E35980590</td>
<td>Only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber with O-ring</td>
<td>C79451-A3468-B231</td>
<td>Analyzer chamber 180 mm</td>
</tr>
<tr>
<td>8</td>
<td>Analyzer chamber with O-ring</td>
<td>A5E35982142</td>
<td>180 mm; only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>C79451-A3458-B500</td>
<td>For CO</td>
</tr>
<tr>
<td>6</td>
<td>Gas filter</td>
<td>A5E35983013</td>
<td>For CO; only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>C79451-A3468-B525</td>
<td>For CO</td>
</tr>
<tr>
<td>9 *)</td>
<td>Receiver chamber</td>
<td>A5E35983110</td>
<td>For CO; only variant -B06 ‘Cleaned for O(_2)’</td>
</tr>
</tbody>
</table>

*) Following replacement of this part, special work is required which can only be carried out by qualified personnel trained for this task, for example temperature compensation, basic electronic adjustment etc.
### Section 13.6

#### Table 1  Hydrogen sulfide sensors

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
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</thead>
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<tr>
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<td>H₂S sensor</td>
<td>A5E02716049</td>
<td>Measuring range 0 ... 5000 ppm</td>
</tr>
<tr>
<td>-</td>
<td>H₂S sensor</td>
<td>A5E03858060</td>
<td>Measuring range 0 ... 50 ppm</td>
</tr>
<tr>
<td>-</td>
<td>H₂S sensor</td>
<td>A5E35984634</td>
<td>Measuring range 0 ... 50 ppm; for variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>

#### Table 2  Paramagnetic oxygen sensor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>Paramagnetic oxygen sensor</td>
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<tr>
<td>-</td>
<td>Paramagnetic oxygen sensor</td>
<td>A5E35984641</td>
<td>For variant -B06 'Cleaned for O₂'</td>
</tr>
<tr>
<td>-</td>
<td>Preamplifier board</td>
<td>A5E03347540</td>
<td></td>
</tr>
</tbody>
</table>

#### Table 3  Electrochemical oxygen sensor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Designation</th>
<th>Order No.</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>-</td>
<td>Electrochemical oxygen sensor</td>
<td>C79451--A3458--B55</td>
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</tr>
<tr>
<td>-</td>
<td>Electrochemical oxygen sensor</td>
<td>A5E35951900</td>
<td>For variant -B06 'Cleaned for O₂'</td>
</tr>
</tbody>
</table>
### Section 13.7 - Spare parts for the variant -B06 'Cleaned for O2'

The following table shows a comparison between all spare parts for the variant -B06 (Cleaned for O2) and the corresponding parts in the other variants.

<table>
<thead>
<tr>
<th>Part No. (Section)</th>
<th>Designation</th>
<th>Order no. -B06 'Cleaned for O2'</th>
<th>Order no. for all other variants</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 (13.2)</td>
<td>Pressure switch</td>
<td>A5E37371678 C79302-Z1210-A2</td>
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</tr>
<tr>
<td>11 (13.2)</td>
<td>Flowmeter</td>
<td>A5E35980458 C79402-Z560-T1</td>
<td></td>
</tr>
<tr>
<td>16 (13.2)</td>
<td>Connecting socket</td>
<td>A5E36448926 A5E36448145</td>
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<tr>
<td>8.1 (13.4)</td>
<td>Sample gas pump 50 Hz</td>
<td>A5E35980470 C79451-A3494-B10</td>
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</tr>
<tr>
<td>8.2 (13.4)</td>
<td>Sample gas pump 60 Hz</td>
<td>A5E35980528 C79451-A3494-B11</td>
<td></td>
</tr>
<tr>
<td>8.3 (13.4)</td>
<td>Sealing set</td>
<td>A5E35980531 C79402-Z666-E20</td>
<td></td>
</tr>
<tr>
<td>3 (13.5.n)</td>
<td>Chopper</td>
<td>A5E35980538 C79451-A3468-B515</td>
<td></td>
</tr>
<tr>
<td>3 (13.5.n)</td>
<td>Chopper</td>
<td>A5E35984159 C79451-A3468-B516</td>
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</tr>
<tr>
<td>4 (13.5.n)</td>
<td>Plate with threaded bolts and windows</td>
<td>A5E35980542 C79451-A3468-B513</td>
<td></td>
</tr>
<tr>
<td>4 (13.5.n)</td>
<td>Plate with threaded bolts and windows</td>
<td>A5E35984162 C79451-A3468-B514</td>
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</tr>
<tr>
<td></td>
<td>Optical filter with filter support</td>
<td>A5E35984319 A5E00502911</td>
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</tr>
<tr>
<td>5.1 (13.5.n)</td>
<td>O-ring</td>
<td>A5E35980590 C71121-Z100-A99</td>
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</tr>
<tr>
<td>5/8 (13.5.n)</td>
<td>Analyzer chamber with O-ring 180 mm</td>
<td>A5E35982142 C79451-A3468-B231</td>
<td></td>
</tr>
<tr>
<td>5/8 (13.5.n)</td>
<td>Analyzer chamber with O-ring 90 mm</td>
<td>A5E35982156 C79451-A3468-B232</td>
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</tr>
<tr>
<td>5/8 (13.5.n)</td>
<td>Analyzer chamber with O-ring 60 mm</td>
<td>A5E35982163 C79451-A3468-B233</td>
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</tr>
<tr>
<td>5/8 (13.5.n)</td>
<td>Analyzer chamber with O-ring 20 mm</td>
<td>A5E35982170 C79451-A3468-B234</td>
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</tr>
<tr>
<td>5/8 (13.5.n)</td>
<td>Analyzer chamber with O-ring 6 mm</td>
<td>A5E35982178 C79451-A3468-B235</td>
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<tr>
<td>5/8 (13.5.n)</td>
<td>Analyzer chamber with O-ring 2 mm</td>
<td>A5E35982182 C79451-A3468-B236</td>
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<td>6 (13.5.n)</td>
<td>Gas filter</td>
<td>A5E35983013 C79451-A3468-B500</td>
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<tr>
<td>6 (13.5.n)</td>
<td>Gas filter</td>
<td>A5E35983026 C79451-A3468-B508</td>
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<tr>
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<td>Gas filter</td>
<td>A5E35983032 C79451-A3468-B541</td>
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<td>6 (13.5.n)</td>
<td>Gas filter</td>
<td>A5E35983036 C79451-A3468-B542</td>
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<td>6 (13.5.n)</td>
<td>Gas filter</td>
<td>A5E35983044 C79451-A3468-B553</td>
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<tr>
<td>Part No. (Section)</td>
<td>Designation</td>
<td>Order no. -B06 'Cleaned for O₂'</td>
<td>Order no. for all other variants</td>
</tr>
<tr>
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<td>-------------</td>
<td>----------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>7/9 (13.5.n)</td>
<td>Receiver chamber</td>
<td>A5E35983178</td>
<td>C79451-A3468-B520</td>
</tr>
<tr>
<td>7/9 (13.5.n)</td>
<td>Receiver chamber</td>
<td>A5E35983183</td>
<td>C79451-A3468-B521</td>
</tr>
<tr>
<td>7/9 (13.5.n)</td>
<td>Receiver chamber</td>
<td>A5E35984186</td>
<td>C79451-A3468-B522</td>
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<tr>
<td>7/9 (13.5.n)</td>
<td>Receiver chamber</td>
<td>A5E35984197</td>
<td>C79451-A3468-B523</td>
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<tr>
<td>7/9 (13.5.n)</td>
<td>Receiver chamber</td>
<td>A5E35983110</td>
<td>C79451-A3468-B525</td>
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<tr>
<td>7/9 (13.5.n)</td>
<td>Receiver chamber</td>
<td>A5E35983146</td>
<td>C79451-A3468-B526</td>
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<tr>
<td>7/9 (13.5.n)</td>
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<td>C79451-A3468-B527</td>
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<td>7/9 (13.5.n)</td>
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<td>7/9 (13.5.n)</td>
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<td>7/9 (13.5.n)</td>
<td>Receiver chamber</td>
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<td>7/9 (13.5.n)</td>
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<td>C79451-A3468-B539</td>
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<td>7/9 (13.5.n)</td>
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<td>C79451-A3468-B581</td>
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<tr>
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<td>H₂S sensor, measuring range 0 ... 50 ppm</td>
<td>A5E35984634</td>
<td>A5E03858060</td>
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<td>Paramagnetic oxygen sensor</td>
<td>A5E35984641</td>
<td>A5E03347537</td>
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<td>Electrochemical oxygen sensor</td>
<td>A5E35951900</td>
<td>C79451-A3458-B55</td>
</tr>
</tbody>
</table>
Section A.3

Latest versions of standards See EU declaration of conformity A5E00484479B

**CE**
- EN 61000-6-2,
- EN 61000-6-4 (replaces EN 50081-2)

**ATEX**
- EN 60079-15: 2010,
- Zone 2
  - EN 60079-0: 2012 + A11: 2013
  - II 3G Ex nA IIC T4,
  - KEMA 09 ATEX 0027X

**CSA**
- CSA C22.2 NO 213 CAN/CSA-E60079-15
- Cl. 1, Div. 2, GP, A, B, C, D, T4
- Cl. 1, Zone 2, Ex na IIC T4
- $T_a: +5^\circ C ... +45^\circ C$

**FM**
- FM 3611//3600/3810
- Cl. 1, Div. 2, GP, A, B, C, D, T4
- Cl. 1, Zone 2, GP, IIC, T4
- $T_a: +5^\circ C ... +45^\circ C$

**SIRA**
- MC 040033/02 MCERTS Standard V3.1

**GOST (FOCT)**
- DE.C.31.004.A No.14771

**Suitability tests**
- 13. BImSchV
- TA Luft
- 27. / 30. BImSchV
- QAL 1
- EN 15267 (MFLB 7MB235x)