A pressure sensor, digital VAV controller and damper actuator all in one, providing a compact solution with a communications capability for pressure-independent VAV and CAV systems in the comfort zone:

- Control modulating, communicative, hybrid
- Conversion of sensor signals
- Communication via BACnet MS/TP, Modbus RTU, Belimo MP-Bus or conventional control
- Service socket for operating devices

**Brief description**

**Application**
The digital VAV-Compact has PI control characteristics and is used for pressure-independent control of VAV units in the comfort zone.

**Pressure measurement**
The integrated D3 differential pressure sensor is also suitable for very small volumetric flows. The maintenance-free sensor technology enables versatile applications in the comfort zone: in residential construction, offices, hospitals, hotels, cruise ships, etc.

**Actuator**
2 different actuator variants (5 or 10 Nm) are available for different VAV unit structures.

**Control function**
- Volumetric flow (VAV-CAV) or Open-Loop (for integration in an external VAV control loop).
- Demand-dependant setting of volumetric flows $V_{\text{min}} \ldots V_{\text{max}}$ on a modulating reference variable via Modbus, e.g. room temperature / CO2 controller, DDC or Bus system, for energy-saving air conditioning in individual rooms or zones.

**VAV – variable volumetric flow**
In higher-level BACnet / Modbus system, for example with integrated optimiser function.

**DCV – Demand Controlled Ventilation**
Mode of operation
The actuator is fitted with an integrated interface for BACnet MS/TP, Modbus RTU and MP-Bus, it receives the digital positioning signal from the upper system and returns the current status.

**Converter for sensors**
Connection option for a sensor (active or with switching contact). In this way, the analogue sensor signal can be easily digitised and transferred to the bus systems BACnet, Modbus or MP-Bus.

**Parameterisation**
The factory settings cover the most common applications. As desired, individual parameters can be adapted for specific systems or servicing with a service tool (e.g. ZTH EU).

**Communication parameters**
The communication parameters of the bus systems (address, baud rate, …) are set with the ZTH EU. Pressing push-button "Address" while connecting the supply voltage resets the communication parameters to the factory setting.

Quick addressing: The BACnet and Modbus address can alternatively be set using the buttons on the actuator and selecting 1 to 16. The value selected is added to the «Basic address» parameter and results in the effective BACnet and Modbus address.

**Combination analogue - communicative (hybrid mode)**
With conventional control by means of an analogue positioning signal, BACnet or Modbus can be used for the communicative position feedback

**Operating and service devices**
Service tool ZTH, PC-Tool service socket: locally pluggable or via PP connection.

**Electrical connection**
The connection is made with the integrated connection cable.

**Sales, mounting and setting**
VAV-Compact will be mounted by the VAV unit manufacturer (OEM), the application will be set and calibrated accordingly. The VAV-Compact is sold exclusively via the OEM channel for this reason.

**Type overview**

<table>
<thead>
<tr>
<th>Type</th>
<th>Torque</th>
<th>Power consumption</th>
<th>Rating</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMV-D3-MOD</td>
<td>5 Nm</td>
<td>2 W</td>
<td>4 VA (max. 8 A @ 5 ms)</td>
<td>Approx. 500 g</td>
</tr>
<tr>
<td>NMV-D3-MOD</td>
<td>10 Nm</td>
<td>3 W</td>
<td>5 VA (max. 8 A @ 5 ms)</td>
<td>Approx. 700 g</td>
</tr>
</tbody>
</table>

**Other versions**
The VAV-Compact is also available with a built-in interface for direct integration in MP-Bus systems, KNX and LONWORKS®. See www.belimo.eu for more information and documentation.
VAV-Compact MOD
Volumetric flow compact control device for BACnet / Modbus

Safety notes

- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Outdoor applications: possible only in the absence of direct effects on the actuator from (sea)water, snow, ice, sunlight and aggressive gases and when it is guaranteed that the ambient conditions do not deviate at any time from the limit values specified in the datasheet.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- The device may only be opened at the manufacturer’s site. It does not contain any parts that can be replaced or repaired by the user.
- Cables must not be removed from the device.
- When calculating the torque required, the specifications supplied by the damper manufacturers (cross-section, construction, place of installation), and the ventilation conditions must be observed.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Electrical installation

<table>
<thead>
<tr>
<th>No.</th>
<th>Designation</th>
<th>Wire colour</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T</td>
<td>black</td>
<td>AC/DC 24 V supply</td>
</tr>
<tr>
<td>2</td>
<td>~ +</td>
<td>red</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>MFT</td>
<td>orange</td>
<td>MP connection</td>
</tr>
<tr>
<td>6</td>
<td>D–</td>
<td>pink</td>
<td>BACnet / Modbus (RS485)</td>
</tr>
<tr>
<td>7</td>
<td>D+</td>
<td>grey</td>
<td></td>
</tr>
</tbody>
</table>

Notes

- Supply via safety isolating transformer!
- Modbus signal assignment:
  - \( C_1 = D_- = A \)
  - \( C_2 = D_+ = B \)
- Supply and communication are not galvanically isolated.
- Connect earth signal for devices with one another.

See separate documentation for description of functions and applications
# Technical Data

## Electrical data
- **Nominal voltage**: AC/DC 24 V, 50/60 Hz
- **Operating range**: AC 19.2 ... 28.8V / DC 21.6 ... 28.8V
- **Performance data**: See Overview of types (page 1)
- **Connection**: Cable, 6 x 0.75 mm², preassembled

## Volumetric flow controllers
- **Control function**: VAV/CAV and Open-Loop
- **$V_{nom}$**
  - OEM specific nominal volumetric flow setting, suitable for VAV unit
- **$\Delta p @ V_{nom}$**
  - 38 ... 500 Pa
- **$V_{max}$**: 20 ... 100 % of $V_{nom}$, adjustable
- **$V_{mid}$**: >$V_{min}$ ... <$V_{max}$, adjustable
- **$V_{min}$**: 0 ... 100 % of $V_{nom}$, adjustable (<$V_{max}$)

## Sensor integration
- **input**: 0 ... 32 V, input impedance 100 kΩ
- **Sensor**: Active Sensor (0 ... 10 V)
  - Switching capacity: 16 mA @ 24 V

## Local override control
- **Override**: CLOSED / $V_{max}$ / OPEN, AC 24 V supply required

## Communicative control
- **BACnet MS/TP**
- **Modbus RTU**
- **MP-Bus** (ex works)

## Operation and service
- **Service tool ZTH, PC-Tool**
- **LED Supply**, status and communication display
- **Push-button**: Addressing, angle of rotation adaptation and test function

## Actuator
- **Rotary/linear version**: Brushless, non-blocking actuator with power-save mode
- **Direction of rotation**
  - ccw / cw
- **Angle of rotation**: 95°, adjustable mechanical or electronic limiting
- **Gear disengagement**: Push-button self-resetting without functional impairment
- **Position indication**: Mechanical or accessible (Tool, Bus-Master)
- **Spindle holder**: Spindle clamp for round and square shafts

## Volumetric flow measurement
- **Differential pressure sensor**: Belimo D3 sensor, dynamic measurement principle
- **Measurement range, operating range**: –20 ... 500 Pa, 0 ... 500 Pa
- **Overload capability**: ±3000 Pa
- **Altitude compensation**: Adaptation to system altitude (adjustable between 0 ... 3000 m above sea level)
- **Installation position**: Any, no reset necessary
- **Materials in contact with medium**: Glass, epoxy resin, PA, TPE
- **Measuring air conditions**: Comfort zone 0 ... 50°C / 5 ... 95% rH, non-condensing

## Safety
- **Protection class IEC/EN**: III Safety extra-low voltage
- **Degree of protection IEC / EN**: IP54
- **EMC**: CE according to 2014/30/EU
- **Certification IEC/EN**: IEC/EN 60730-1 and IEC/EN 60730-2-14
- **Rated current voltage**: 0.8 kV
- **Supply / control**: 0.8 kV
- **Control pollution degree**: 3
- **Ambient temperature**: 0 ... +50°C
- **Non-operating temperature**: –20 ... +80°C
- **Ambient humidity range**: 95% r.h., non-condensing
- **Maintenance**: Maintenance-free. Depending on the application, the differential pressure sensor (measuring cross, disc, ...) of the VAV unit is checked occasionally and cleaned if required.

1) Setting by VAV manufacturer (OEM)
Electrical installation

### Notes
- Connection via safety isolating transformer.
- The wiring of the line for Modbus (RTU) / BACnet (MS/TP) is to be carried out in accordance with applicable RS485 regulations.
- Modbus / BACnet: Supply and communication are not galvanically isolated. Connect earth signal of the devices with one another.

#### BACnet MS/TP / Modbus RTU

**Connection with switching contact, e.g. Δp-monitor**

Switching contact requirements:
The switching contact must be able to switch a current of 16 mA at 24V accurately.

**Connection of active sensors, e.g. 0...10 V @ 0...50 °C**

Possible voltage range: 0 ... 32 V (resolution 30 mV)

#### BACnet MS/TP / Modbus RTU with analog setpoint (hybrid mode)

**Operating on the MP-Bus**

Cable colours:
1 = black  
2 = red  
3 = white  
5 = orange  
6 = pink  
7 = gray

Signal assignment Modbus:
C₁ = D− = A  
C₂ = D+ = B

Cable colours:  
1 = black  
2 = red  
3 = white  
5 = orange  
6 = pink  
7 = gray

Signal assignment Modbus:
C₁ = D− = A  
C₂ = D+ = B

Cable colours:  
1 = black  
2 = red  
3 = white  
5 = orange  
6 = pink  
7 = gray

Signal assignment Modbus:
C₁ = D− = A  
C₂ = D+ = B
Electrical installation

Local override control

If no sensor is integrated, then connection 3 (Y) is available for the protective circuit of a local override control.

Options: CLOSED – \( V_{\text{max}} \) – OPEN

Note: Functions only with AC 24 V supply!

Control functions - VAV / CAV

VAV-operating volumetric flow – Setting and control

Open-Loop (separate external VAV-Control)

Control damper Y

![Diagram showing electrical installation and control functions]

- \( a \): Damper CLOSED
- \( b \): \( V_{\text{max}} \)
- \( c \): Damper OPEN
- \( d \): Bus mode

![Graphs showing VAV and Open-Loop control settings]
## Setting and Tool function

### Designation

<table>
<thead>
<tr>
<th>Adjustment values, limits, explanations</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volumetric flow compact control device</strong></td>
<td><strong>for BACnet / Modbus</strong></td>
</tr>
</tbody>
</table>

### System specific data

<table>
<thead>
<tr>
<th><strong>Position</strong></th>
<th><strong>16 characters e.g.: Office 4 6.0G ZL</strong></th>
<th><strong>Text</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Modbus address</strong></td>
<td><strong>1...247 Baud rate and etc.</strong></td>
<td><strong>r/w</strong></td>
</tr>
<tr>
<td><strong>Address (MP)</strong></td>
<td><strong>PP</strong></td>
<td><strong>r/w</strong></td>
</tr>
</tbody>
</table>

### Tools

<table>
<thead>
<tr>
<th><strong>Tools</strong></th>
<th><strong>ZTH EU</strong></th>
<th><strong>PC-Tool</strong></th>
</tr>
</thead>
</table>

### Remarks

- **Modbus addressing**

### Designation

<table>
<thead>
<tr>
<th><strong>Adjustment values, limits, explanations</strong></th>
<th><strong>Units</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vmax</strong></td>
<td><strong>20…100 % [Vnom]</strong></td>
</tr>
<tr>
<td><strong>Vmin</strong></td>
<td><strong>0…100 % [Vnom]</strong></td>
</tr>
</tbody>
</table>

### Controller settings

| **Controller function** | **Volumetric flow / open loop** | **-** | **r/w** |

### Mode

<table>
<thead>
<tr>
<th><strong>Mode</strong></th>
<th><strong>0…10 / 2…10</strong></th>
<th><strong>Volt</strong></th>
</tr>
</thead>
</table>

### CAV function

<table>
<thead>
<tr>
<th><strong>CAV function</strong></th>
<th><strong>CLOSED/Vmin/Vmax; Shut-off level</strong></th>
<th><strong>CLOSED 0.1 V</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Positioning signal Y</strong></td>
<td><strong>Start value: 0.6 … 30; Stop value: 2.6 ... 32</strong></td>
<td><strong>r/w</strong></td>
</tr>
<tr>
<td><strong>Feedback U</strong></td>
<td><strong>Volume / damper position / Δp</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Feedback U</strong></td>
<td><strong>Start value: 0.0 … 8.0; Stop value: 2.0 ... 10</strong></td>
<td><strong>r/w</strong></td>
</tr>
</tbody>
</table>

### Response when switched on (Power-On)

| **No action / Adaptation / Synchronisation** | **-** | **r/w** |

### Synchronisation behaviour

| **Y=0 %** | **Y=100 %** | **r/w** |

### Bus fail position

| **Last set point / Damper CLOSED** | **Vmin / Vmax / Damper OPEN** | **-** | **r/w** |

### Unit specific settings

| **Write function only available for VAV manufacturer** | | |

### Other settings

| **Direction of rotation (for Y = 100%)** | **cw/ccw** | **r/w** |
| **Range of rotation** | **Adapted 3) / programmed 30…95** | **-** | **r/w** |
| **Torque** | **100 / 75 / 50 / 25** | **%** | **r/w** |

### Operating data

| **Setpoint / actual value** | **m³/h / l/s / cfm** | **r** | **r** |
| **Damper position** | **Pa / %** | **r** |

### Simulation

| **Damper CLOSED / OPEN** | **Vmin / Vmid / Vmax / motor stop** | **w** | **w** |

### Running times

| **Operating time, running time Ratio** | **h / %** | **-** | **r** |

### Alarm messages

| **Setting range enlarged, mech. overload, Stop&Go ratio too high** | **-** | **r/w** |

### Series number

| **Device ID.** | **r** | **r** |

### Type

| **Type designation** | **r** | **r** |

### Version display

| **Firmware, Config table ID** | **r** | **r** |

### Configuration data

| **Print, create PDF** | **-** | **Yes** |
| **Save to file** | **-** | **Yes** |

### Log data / book

| **Activity log** | **-** | **Yes** |

### Explanations

- **1) Access only on operating level 2**
- **2) CAV setting for MP/MF type**
- **3) within the mechanical limit.**
- **4) The first time the supply voltage is switched on, i.e. at the time of commissioning, the actuator carries out an adaption, which is when the operating range and position feedback adjust themselves to the mechanical setting range. The actuator then moves into the required position in order to ensure the volumetric flow defined by the positioning signal.**
- **5) See www.belimo.eu for function and version history.**
Quick addressing

1. Press the "Address" button until the green "Power" LED display is no longer illuminated.
   - The green "Adaption" LED display flashes in accordance with the previously set address (1 ... 16).
2. Set the address by pressing the "Address" button the corresponding number of times (1-16).
   - If the address is not correct, then this can be reset in accordance with Step 2.
3. Confirm the address setting by pressing the green "Adaption" button.
   - If no confirmation occurs for 60 seconds, then the address procedure is ended.
   - Any address change that has been made will be discarded.
   - The resulting BACnet MS/TP and Modbus RTU address is made up of the set basic address plus the short address (e.g. 100+7=107).

ZTH / PC-Tool - local service connection

The settings and diagnostics of the VAV-Compact can be performed easily and rapidly with the Belimo PC-Tool or with the ZTH-EU service tool. When using the PC-Tool, the ZTH EU serves as an interface converter.

Check power supply connection

1. Press the "Address" button until the green "Power" LED display is no longer illuminated.
   - If no confirmation occurs for 60 seconds, then the address procedure is ended.
   - Any address change that has been made will be discarded.
   - The resulting BACnet MS/TP and Modbus RTU address is made up of the set basic address plus the short address (e.g. 100+7=107).
VAV-Compact MOD

Volumetric flow compact control device for BACnet / Modbus

Display and operation

ZTH / PC-Tool - remote connection

The VAV-Compact can communicate with the service tools via the PP connection (wire 5). The connection can be made in operating mode in the junction box or the control cabinet terminals. When using the PC-Tool, the ZTH EU serves as an interface converter.

![Image of ZTH / PC-Tool connection diagram]

Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAV-Compact: version with integrated MP-Bus, LONWORKS® and KNX interface</td>
<td></td>
</tr>
<tr>
<td>VAV-Universal: VAV pressure controller, Δp sensors, actuator(spring-return, fast runner, etc.)</td>
<td></td>
</tr>
<tr>
<td>see <a href="http://www.belimo.eu">www.belimo.eu</a> for more information and documentation</td>
<td></td>
</tr>
<tr>
<td>Electrical accessories</td>
<td>Description</td>
</tr>
<tr>
<td>Connection cable 5 m, to ZTH / ZIP-USB-MP (RJ12) with service plug</td>
<td>ZK1-GEN</td>
</tr>
<tr>
<td>Connection cable 5 m, to ZTH / ZIP-USB-MP (RJ11) with free wire ends</td>
<td>ZK2-GEN</td>
</tr>
<tr>
<td>Tools</td>
<td>Description</td>
</tr>
<tr>
<td>Service tool for parametrisable and communicative Belimo actuators / VAV controller and HVAC performance devices</td>
<td>ZTH EU</td>
</tr>
<tr>
<td>Belimo PC-Tool, software for adjustments and diagnostics</td>
<td>MFT-P</td>
</tr>
<tr>
<td>Adapter to Service Tool ZTH</td>
<td>MFT-C</td>
</tr>
</tbody>
</table>

Download PC-Tool (MFT-P) from www.belimo.eu
VAV-Compact MOD
Volumetric flow compact control device
for BACnet / Modbus

Dimensions [mm]

Dimensional drawings LMV-D3-MOD

Dimensional drawings NMV-D3-MOD

Further documentation

- Tool connections
- Description Protocol Implementation Conformance Statement PICS
- Description Modbus-Register
- Overview MP Cooperation Partners
- MP Glossary
- Introduction to MP-Bus-Technology
### VAV-Compact MOD

#### Model overview / feature comparison

<table>
<thead>
<tr>
<th></th>
<th>-MF</th>
<th>-MP</th>
<th>-KNX</th>
<th>LON</th>
<th>-MOD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field of application:</strong> Supply and exhaust air in the comfort zone and sensor-compatible media</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>AC/DC 24 V supply</strong></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Integrated Δp sensor, dynamic D3, measuring range:</strong></td>
<td>–20...500 Pa</td>
<td>–20...500 Pa</td>
<td>–20...500 Pa</td>
<td>–20...500 Pa</td>
<td>–20...500 Pa</td>
</tr>
<tr>
<td><strong>Actuator variants:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– Rotary actuator</td>
<td>5 / 10 Nm</td>
<td>5 / 10 / 20 Nm</td>
<td>5 / 10 / 20 Nm</td>
<td>5 / 10 / 20 Nm</td>
<td>5 / 10 / 20 Nm</td>
</tr>
<tr>
<td>– Linear actuator</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>VAV function V&lt;sub&gt;min&lt;/sub&gt;...V&lt;sub&gt;max&lt;/sub&gt;</strong></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>CAV stages V&lt;sub&gt;min&lt;/sub&gt;/V&lt;sub&gt;mid&lt;/sub&gt;/V&lt;sub&gt;max&lt;/sub&gt;</strong></td>
<td>X</td>
<td>X</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Open Loop (external V control)</strong></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>DCV (Optimiser function)</strong></td>
<td>–</td>
<td>DDC MP Partners</td>
<td>Yes, programmable</td>
<td>Yes, programmable</td>
<td>Yes, programmable</td>
</tr>
<tr>
<td><strong>Analog control</strong></td>
<td>0/2 ... 10 V</td>
<td>0/2 ... 10 V</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>With bus control</strong></td>
<td>–</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Bus specification</strong></td>
<td>–</td>
<td>Belimo MP bus</td>
<td>KNX S mode</td>
<td>LONWORKS® FTT-10A</td>
<td>Modbus RTU RS485</td>
</tr>
<tr>
<td><strong>Direct integration DDC MP Partners</strong></td>
<td>–</td>
<td>X</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Integration via Gateway</strong></td>
<td>–</td>
<td>X</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>– BACnet</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>– KNX</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>– LONWORKS®</td>
<td>X</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>– Modbus RTU</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Number of bus devices</strong></td>
<td>–</td>
<td>8 per strand</td>
<td>64 per line segment</td>
<td>64 per bus segment</td>
<td>32 per strand</td>
</tr>
<tr>
<td><strong>Sensor integration</strong></td>
<td>–</td>
<td>X</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>– passive (resistance)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>– active (0...10 V)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>– Switching contact</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Optional control function</strong></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>Temperature / CO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>–</td>
</tr>
<tr>
<td><strong>Local forced (override)</strong></td>
<td>–</td>
<td>CLOSED / V&lt;sub&gt;max&lt;/sub&gt;/OPEN</td>
<td>CLOSED / V&lt;sub&gt;max&lt;/sub&gt;/OPEN</td>
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<td>MP-Bus Tester</td>
<td>ETS Product database</td>
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<td><strong>Integration tools</strong></td>
<td>–</td>
<td>PC-Tool</td>
<td>ETS</td>
<td>LNS Tool + Plug-in</td>
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<tr>
<td><strong>TypeList function (Retrofit, OEM)</strong></td>
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<tr>
<td><strong>Tool connection (U – PP/MP)</strong></td>
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<tr>
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<tr>
<td><strong>Assistant App</strong></td>
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<tr>
<td><strong>PC-Tool</strong></td>
<td>– Parameter</td>
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<td>– Save data</td>
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<tr>
<td>– Trend, Logbook</td>
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<td>– Label Print</td>
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* on request