VAHLE Powercom®

VAHLE Powercom® 485

<table>
<thead>
<tr>
<th>Type</th>
<th>Transfer speed</th>
<th>Transfer length</th>
<th>Powercom® devices per segment</th>
<th>Description</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>19.2 kbps</td>
<td>up to 5000 m</td>
<td></td>
<td>Additional interfaces: Allen-Bradley 485-490, MODBUS</td>
<td>910 008</td>
</tr>
<tr>
<td>485 - 30 V</td>
<td></td>
<td></td>
<td></td>
<td>Operating voltage: 230 optionally 115 Volt @ 10 % Temperature</td>
<td></td>
</tr>
<tr>
<td>485 - 100 V</td>
<td></td>
<td></td>
<td></td>
<td>Weight: 216 g</td>
<td></td>
</tr>
</tbody>
</table>

VAHLE Powercom® 485 HD TWIN

<table>
<thead>
<tr>
<th>Type</th>
<th>Transfer speed</th>
<th>Transfer length</th>
<th>Powercom® devices per segment</th>
<th>Description</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>28.6 kbps (127.5 kbps (adjustable))</td>
<td>up to 200 m</td>
<td></td>
<td>Display/output, diagnostic adjustment, channel display, input/output display, sensitivity adjustment, operating voltage: 355 - 330 V</td>
<td>910-124</td>
</tr>
<tr>
<td>485 HD TWIN</td>
<td></td>
<td></td>
<td></td>
<td>Operating voltage: 50/60 Hz Weight: 484 g</td>
<td></td>
</tr>
</tbody>
</table>

Further technical details about VAHLE Powercom® 65S and VAHLE Powercom® 485 HD TWIN

Transfer mode: Half-duplex, Interface: RS-485, 115 kbps (transparent protocol), MODBUS-OPC and marginalized acc. to EN 16147/V1.1, H1, T1, HART, 200 bar maximum number of participants according to PROFIBUS-DP specification. Type of wire: transmission and traverse conductor line: shielded power cable, double current collector, Voltage drop: 15 % max. (Operating temperature: -20° bis + 50 °C, Housing dimension: 96 x 157 x 120 mm (Marked)

VAHLE Powercom® Double Filter

<table>
<thead>
<tr>
<th>Type</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>910 096</td>
</tr>
</tbody>
</table>

VAHLE Powercom® Terminal resistance

<table>
<thead>
<tr>
<th>Type</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>910 097</td>
</tr>
</tbody>
</table>

Scope of delivery and services

1. Open conductor systems
2. Insulated conductor systems
3. Compact conductor systems
4. Closed Conductor Systems
5. Contactless power systems
6. Data transmission
7. Positioning systems
8. Fixture systems and cables
9. Basics
10. Other

Further technical details about VAHLE Powercom®

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VAHLE Powercom® Data transmission systems in conjunction with VAHLE conductor bars

VAHLE Powercom®

Data in motion

www.vahle.de  · info@vahle.de

VAHLE Powercom®

Data in motion

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Data in motion
VAHLE Powercom® — Data transmission systems in conjunction with VAHLE conductor bars or sliprings were developed for automatic handling systems in material flow technology. They enable the unauthorized and cost-effective data transfer between the control system and the accompanying automation devices on the conveying units.

**VAHLE Powercom® Advantages of VAHLE Powercom®**

VAHLE Powercom® is a medium for reliable data transfer in half-duplex via conductor bar or slipring assemblies. It has a RS interface as a standard, is transparent and does not require BUS-addressing.

- **Reliable:** due to the special VAHLE technology, a self-cleaning effect arises, which ensures fault-free operation
- **Fast:** direct data transfer (max. 2-3bit delay)

### Example of use

#### VAHLE Powercom® /four.tf/eight.tf/five.tf

- RS Interface (transparent protocol)
- to be used in various BUS-Systems (see page 6)
- Transfer rate /one.tf/nine.tf./two.tf kbps

#### VAHLE Powercom® /four.tf/eight.tf/five.tf HD TWIN

- SRS Interface (transparent protocol)
- to be used in various BUS-Systems (refer to folded-out page)
- Transfer rate from /two.tf/eight.tf./eight.tf upto /one.tf/eight.tf/seven.tf./five.tf kbps (adjustable)

### Your benefit with VAHLE Powercom®

- **Transfer cars:**
  - all types of conductor bar can be used (e.g. enclosed conductor systems)
  - use of spring-operated and motorized cable reels
  - interference-proof even in case of many parallel systems on the installation

- **Transfer cars:**
  - cost-effective and reliable data transmission via conductor bar or spring-operated and motor powered cable reel
  - interference-proof even in case of many parallel systems on the installation

---

### VAHLE Powercom® CPS®

- data transmission via CPS® system (inductive energy transfer)
- also available as stand alone solution
- for more information see Cat. CPS®

### SMG (Slotted Microwave Guide)

- interference-free transmission via the slotted microwave guide
- also available as stand alone solution
- no interference by radio systems
- for more information see Cat. SMG

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### Other VAHLE data transmission systems

- **VAHLE Powercom® GS:**
  - RS 485 interface (transparent protocol)
  - to be used in various BUS-Systems (see page 6)
  - Transfer rate 16,2 kbps

- **VAHLE Powercom® GSI HD TWIN:**
  - SRS 485 interface (transparent protocol)
  - to be used in various BUS-Systems (refer to folded-out page)
  - Transfer rate from 16,2 upto 147.5 kbps (adjustable)

### Your benefit with VAHLE Powercom®

- **Transfer cars:**
  - power and data transfer within one conductor system
  - no energy chain required
  - high transmission rate
  - highest availability in difficult ambient conditions

- **Suspended tub trolley:**
  - power and data transfer via conductor bar or slipring assemblies
  - highest availability even with the use of spring operated and motorized cable reels

- **AL/R.S. Warehouse systems:**
  - one conductor system for power, data and APOS® positioning system
  - no energy chain required
  - no travel speed limitation
  - high data transmission rate
  - highest availability in difficult ambient conditions

- **Hangar systems:**
  - highest availability for the use of powerail enclosed conductor systems (power and data) also for parallel routing
  - good accessibility due to switch cabinet installation
  - also in conjunction with the APOS® positioning system

- **Sewage installations:**
  - cost-effective and reliable data transmission via conductor bar or spring-operated and motor powered cable reel
  - interference-proof even in case of many parallel systems on the installation

- **EMS:**
  - complete „C/one.tf“ conformity
  - complex track layouts can be realized, also for track switches, lifting stations etc.
  - relatively short installation lengths possible
  - high number of consumers
  - highest availability
  - also in conjunction with the APOS® positioning system

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