VAHLE Powercom®

VARIAS AN ANTARA

.08

09

VAHLE Powercom[®] 485

Туре	Transfer speed	Transfer length	Powercom [®] devices per segment	Description	Order numb
VAHLE Powercom [®] 485 230 V	19.2 kbps	up to 5000 m	64	Additional interfaces: Allen-Bradley DH 485, MODBUS Operating voltage: 230 optionally 115 Volt (± 10%), 50/60 Hz Weight: 1100 g	910 1
VAHLE Powercom® 485 115 V	19.2 kbps	up to 5000 m	64		910 1



VAHLE Powercom[®] 485 HD TWIN

Туре	Transfer speed	Transfer length	Powercom [®] devices per segment	Description	Order number
VAHLE Powercom [®] 485 HD TWIN	28.8 bis 187.5 kbps (adjustable)	up to 200 m ⁽¹⁾	16 (1)	Display/operation, diagnostic adjustment, channel display, output status display, sensivity adjustment Operating voltage: 115 - 230 V (Multi voltage power supply unit), 50/60 Hz Weight: 850 g	910 126

(1) Standard values - higher number of participants or length of segment on request

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

Transfer mode: Half-duplex, Interface: RS 485, 11 Bit (transparent protocol), PROFIBUS-DP and FMS acc. to EN 50170 Volume 2, PROFISAFE, MPI, Suconet, Number of BUS participants: according to BUS specification, Type of wire (connection to interface): according to BUS specification, Typ of wire (connection to and from the

conductor line): shielded power cable, double current collector, Voltage drop: 10 % max., Operating temperature: -20 ° bis + 50 °C, Housing dimension: 85 x 117 x 110 mm (WxHxD)



VAHLE Powercom[®] Double filter

Туре	Order number
VAHLE Powercom [®] Double filter	910 080

VAHLE Powercom[®] Terminal resistance

Туре	Order number
VAHLE Powercom® Terminal resistance	Please state the type of conductor line

Scope of delivery and

1	Open conductor systems
	Open conductor systems
2	Insulated conductor systems
	U10
	FABA 100
	U15, U25, U35
	U20, U30, U40
3	Compact conductor systems
	VKS 10
	VKS - VKL
4	Enclosed Conductor Systems
	KBSL - KSL
	КВН
	MKLD - MKLF - MKLS
	LSV - LSVG
5	Contactless power system
	Contactless power system (CPS®)

6 Data transmission

VAHLE Powercom®

Slotted Microwave Guide (SMG)

7 Positioning systems

VAHLE APOS®

8 Festoon systems and cables

Festoon systems for ∩ tracks Festoon systems for flat cables on]

Festoon systems for round flat cable Festoon systems for ◇ tracks

Cables

9 Reels

Spring Operated Cable Reels Motor Powered Cable Reels

10 Other

Battery charging systems

Heavy enclosed conductor systems

Tender

Contact wire

Assemblies / Commissioning Spare parts / Maintenance service

((🗇 😡



services	Catalogue no.
	1a
	2a
	2b
	2c
	2d
	3a
	3b
	4a
	4D
	4C
	40
	50
	Ja
	62
	6b
	05
	7a
	,
	8a
I tracks	8b
es on I tracks	8c
	8d
	8e
	9a
	9b
	10a
i	10b
	10c
	10d



Kamen/German www.vable.de

DATA IN MOTION! Kamen/Germany +49(0)2307/704-0 www.vahle.de · info@vahle.de







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





VAHLE Powercom®

VAHLE Powercom[®] – Data transmission systems in conjunction with VAHLE conductor bars or sliprings were developed for automated handling systems in material flow technology. They enable the uninterrupted and cost effective data transfer between the central control system and the accompanying automation devices on the conveying vehicles.

Advantages of VAHLE Powercom®

VAHLE Powercom[®] is a modem for reliable data transfer in halfduplex via conductor bars or slipring assemblies. It has a RS 485 interface as a standard, is transparent and does not require BUSaddressing.

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

Powercom[®] HD TWIN for systems with one segment



Example of use



19.2 kbps VAHLE Powercom[®] 485

- RS 485 Interface (transparent protocol)
- to be used in various BUS-Systems (see page 6)
- Transfer rate 19.2 kbps



- SRS 485 Interface (transparent protocol)
- ito be used in various BUS-Systems (refer to fould-out page)
- Transfer rate from 28.8 upto 187.5 kbps (adjustable)

Other VAHLE data transmission systems



- data transmission via CPS® system (inductive energy transfer)
- also available as stand alone solution
- for more information see Cat. CPS[®] (5a)



- interference free transmission via the slotted microwave guide
- also available as stand alone solution
- no interference by radio systems
- for more in information see Cat. SMG (6b)

Your benefit with VAHLE Powercom®

- simple: install the VAHLE Powercom[®] 485 and begin data transfer (plug and play)
 adapted: VAHLE Powercom[®] 485 HD with VAHLE installation
- engineering and assembly

Powercom[®] HD TWIN for systems with two or more segments





Transfer cars

- all types of conductor bars can be used (e.g. enclosed conductor systems)
- one conductor bar for power and data transmission
- highest availability even with the use of spring operated and motorized cable reels



Sewage installations

- cost-effective and reliable data transmisson via conductor bars or spring-operated and motor powered cable reels
- interference-proof even in case of many parallel systems on the installation



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



Suspended tub trolley

- power and data transfer within one conductor system
- use of track switches unproblematic
- large installation lengths possible
- large number of consumers
- complex track layout possible
- also in conjunction with the APOS[®] positioning system



AS/RS Warehouse systems

- one conductor system for power, data and APOS[®] positioning
- no energy chain required
- no travel speed limitation
- high data transmission rate
- highest availability in difficult ambient conditions





- complete "C1" conformity
- complex track layouts can be realised, also for track switches, lifting stations etc.
- segmenting, also for larger installation lengths
- high number of consumers
- highest availability
- also in conjunction with the APOS® positioning system
- insensitive to dirt