

Product type designation

IE/WSN-PA LINK



IE/WSN-PA LINK WITH INTEGRATED ANTENNA;
NETWORK TRANSITION BETWEEN WIRELESS HART
AND ETHERNET;
ETHERNET 10/100 MBIT/S;
TCP/IP, MODUS TCP;
WIRELESS HART WITH 2.4 GHZ;
NATIONAL APPROVAL USA, CANADA,
EUROPE, EX-CERTIFICATION ZONE 2;
RS 485 WITH MODBUS RTU.

Transmission rate

• at the 1st interface	10 ... 100 Mbit/s
• at the 2nd interface	10 ... 100 Mbit/s
• at interface 3	9.6 ... 57.6 kbit/s

Interfaces

Number of electrical connections

• at the 1st interface / acc. to Industrial Ethernet	1
• at the 2nd interface / acc. to Industrial Ethernet	1
• at interface 3 / acc. to RS 485	1
• for power supply	1

Design of the electrical connection

• at the 1st interface / acc. to Industrial Ethernet	RJ 45 port
• at the 2nd interface / acc. to Industrial Ethernet	RJ 45 port
• at interface 3 / acc. to RS 485	2-pole terminal strip
• for power supply	3-pole terminal strip

Interfaces / wireless

Number of radio cards / permanently installed	1
Number of internal antennas	1
Number of electrical connections / for external antenna(s)	0
Design of the electrical connection / for external antenna(s)	-

Supply voltage, current consumption, power loss	
Type of voltage supply	DC
Supply voltage / external	24 V
• minimum	20 V
• maximum	28 V
Consumed current / from external supply voltage / for DC / at 24 V / maximum	0.5 A
Active power loss / maximum	12 W
Permitted ambient conditions	
Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	90 %
Protection class IP	IP 65
Design, dimensions and weight	
Width / of the enclosure	229 mm
Height / of the enclosure	
• without antenna	306 mm
• with antenna	354 mm
Depth / of the enclosure	89 mm
Net weight	4.54 kg
Mounting type	
• wall mounting	Yes
• mast mounting	Yes
Mounting type	Material for mast mounting included in scope of delivery
Wireless frequencies	
[nicht versorgt: PMD_ABS648_001_000]	
•	2.4 GHz
•	2.5 GHz
Performance data / WirelessHART	
Number of WirelessHART devices / usable	100
Network latency	
• for 100 field devices / for WirelessHART network / maximum	10 s
• for 50 field devices / for WirelessHART network / maximum	5 s
Transmission link / between two devices / for WirelessHART network / maximum	100 m
• Note	Values may vary in the case of radio obstacles
Protocol / is supported / HART protocol	Yes

Product properties, functions, components / general	
Protocol / is supported	
• Address Resolution Protocol (ARP)	Yes
• HTTP	Yes
• HTTPS	Yes
• Modbus TCP	Yes
• Modbus TCP secure	Yes
• Modbus RTU	Yes
Product functions / management, configuration	
Product function	
• web-based management	Yes
• DHCP client	Yes
Product functions / Diagnosis	
Product function	
• Web-based diagnostics	Yes
• WirelessHART diagnostics via Modbus	Yes
Product function / Device redundancy	No
Product functions / Security	
Product function	
• Password protection - multi-level	Yes
• WirelessHART Join Key	Yes
• ACL - MAC-based	Yes
• WirelessHART Network ID	Yes
Protocol / is supported / SSL	Yes
Principle of encryption	AES 128 bit
Product functions / Time	
Protocol / is supported / NTP	Yes
Standards, specifications, approvals	
Standard / for WirelessHART	HART V 7.1
Standard for wireless communication / IEEE 802.15.4	Yes
Certificate of suitability	
• CE marking	Yes
• relating to CSA	CSA Division 2 & Dust Ignition-proof for Class I, Division 2, Groups A, B, C, and D. Dust Ignition-proof for Class II, Groups E, F, and G / Suitable for Class III Hazardous Locations. / Install per Siemens drawing A5E02467236A. Temperature Code: T4 (-40°C < Ta < 60°C) CSA Enclosure Type 4X
• relating to FM	FM Division 2, Non-Incendive for Class I, Division 2, Groups A, B, C, and D. Dust Ignition-proof for Class II, III, Division 1, Groups E, F, and G / Indoor and outdoor locations / NEMA Type 4X Temperature Code: T4 (-40°C < Ta < 60°C)
Wireless approval	FCC and IC approval

