

# WLAN Access Point Series 8265



- > Robust, industrial Access Point for Zone 1
- > Based on ProSoft RLX2-IHW-E
- > Degree of protection IP66
- > For use from -40 to +60°C
- > Standard: IEEE 802.11a/b/g  
Solution for 802.11n on request
- > Solutions for Cisco, Juniper etc. are available

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The WLAN Access Point enables wireless data transmission in hazardous areas. For instance, it is possible to access data in a company network from a PDA or a notebook with WLAN interface, transmitting data or controlling sequences.

The WLAN Access Point from R. STAHL stands out due to its easy installation and a robust enclosure which is suitable for rough industrial environments. Its wide temperature range allows it to be used almost under all conditions.

The device supports the widely used standards IEEE 802.11a/b/g. 802.11n with up to 300 Mbit/s on request.


	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		x	x		x	x

WebCode 8265C

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## Selection Table

Version	Basic version	Wire-line interface	Interface, antenna cable	Order number
 <p>WLAN Access Point Series 8265</p>	<ul style="list-style-type: none"> <li>Ex d enclosure 8265/5</li> <li>WLAN access point industrial design</li> </ul>	Ethernet 100BASE-T	N-type socket, intrinsically safe Ex ia	<b>8265/5.-... WLAN ZONE1 acc. to spec.</b>

## Explosion Protection

Design	WLAN Access Point Series 8265
<b>Global (IECEX)</b>	
Gas and dust	IECEX PTB 07.0029 Ex d e [ia Ga] IIC T6 Gb Ex tb [ia Da] IIIC T80°C Db
<b>Europe (ATEX)</b>	
Gas and dust	PTB 06 ATEX 1077 ⊕ II 2 G Ex d e [ia Ga] IIC T6 Gb ⊕ II 2 D Ex tb [ia Da] IIIC T80°C Db
<b>Certifications and certificates</b>	
Certificates	IECEX, ATEX
<b>Further parameters</b>	
Installation	in Zones 1, 2 or Zones 21, 22

## Technical Data

Design	WLAN Access Point Series 8265
<b>Wireless</b>	
Frequency band	802.11b, g: 2.412 ... 2.472 GHz (ETSI), 2.412 ... 2.462 GHz (FCC) 802.11a: 5.150 ... 5.250 GHz (FCC / ETSI), 5.725 ... 5.850 GHz (FCC)
Radio standards	802.11a, 802.11b, 802.11g, 802.11i or in addition optional 802.11n
Radio licence	FCC part 15, ICES-003, Class A digital apparatus RTT&E, ETS 300-826, ETS 300-328, EN 60950
Use approved in	USA, Canada, EU, Russia, Australia, New Zealand further regional approvals on request
Transmission power	up to 50 mW (adjustable)
Data rates (modulation)	802.11b: 11, 5.5, 2, 1 Mbit/s (DSSS - BPSK, QPSK, CCK) 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbit/s (OFDM) 802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbit/s (OFDM)
Receiver sensitivity (typical)	- 90 dBm @ 1 Mbit/s - 85 dBm @ 11 Mbit/s - 82 dBm @ 24 Mbit/s - 75 dBm @ 54 Mbit/s
Channel selection	802.11b, g: 1 ... 13 802.11a: 36, 40, 44, 48, 149, 153, 157, 161, 165
Safety / Encoding	WPA2 - 802.11i with 128 bit AES-CCM WPA TKIP, WEP support MAC ID filter administrator password
Antenna diversity	yes (optional)
Operating modes	Access Point, Access Client or Repeater / Bridge
Configuration	via integrated web server
Monitoring	via integrated OPC Server
<b>Interfaces</b>	
Ethernet	10/100BASE-T connection, RJ-45 shielded IEEE 802.3, 802.3u, 802.3x
Coaxial	2 x RP-SMA sockets (inside Ex d enclosure)
Antenna, external	N-type socket

# WLAN Access Point

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### Technical Data

#### Electrical data

Auxiliary power	
Rated voltage	24 V DC
Voltage range	9 ... 28.8 V DC
Power consumption	6 W
Optional (as alternative)	Power Over Ethernet, AC

#### Ambient conditions

Ambient temperature	-40 to +60 °C
Storage temperature	-40 to +80 °C
Relative humidity (no condensation)	≤ 90%
Degree of protection	IP66

#### Mechanical data

Dimensions	see dimensional drawings
Weight	approx. 13 kg

### Accessories and Spare Parts

Designation	Description	Art. no.	Weight kg
Antennas	omnidirectional, 2.4 GHz ISM band      6 dBi antenna gain	<b>207405</b>	0.370
	omnidirectional, 5 GHz ISM band      6 dBi antenna gain	<b>207406</b>	0.200
	omnidirectional, 2.4 / 5 GHz ISM band      6/8 dBi antenna gain	<b>207407</b>	0.370
	mounting kit for antenna	<b>207408</b>	0.160
	Antennas for use in the offshore applications are available on request.		
Coaxial cable	Order is based on your specification. Specify length, plug connector and cable type, if necessary.		

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## Customer-specific version of the WLAN access point

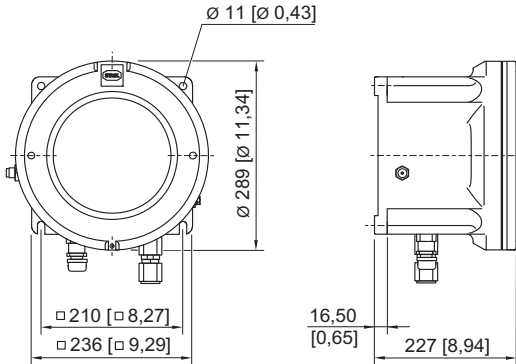
If none of the given basic versions suits your needs, we will be glad to develop a customer-specific configuration. Please fill in the form and enclose it with your request.

<b>General requirements</b>	
Explosion protection	For use in Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Zone 21 <input type="checkbox"/> Zone 22 <input type="checkbox"/> Explosion group IIC <input type="checkbox"/> IIB <input type="checkbox"/> IIA <input type="checkbox"/> Temperature class T6 <input type="checkbox"/> T4 <input type="checkbox"/> T3 <input type="checkbox"/> T2 <input type="checkbox"/> T1 <input type="checkbox"/>
Degree of protection	IP54 <input type="checkbox"/> IP66 <input type="checkbox"/>
Coating	(Ex d enclosure) without <input type="checkbox"/> with <input type="checkbox"/>
<b>External, omni-directional antenna</b>	(data see page )
Quantity	Frequency band 2.4 GHz (standard)   5 GHz
Antenna	1 <input type="checkbox"/> 2 <input type="checkbox"/>   1 <input type="checkbox"/> 2 <input type="checkbox"/>
Antenna cable	see accessory list or specify your requirement: .....
Quantity	.....
Length	.....
Plug connector 1	.....
Plug connector 2	.....
Cable type	.....
<b>Wire-line interface</b>	
Standard	100BASE-T, Ethernet CAT6 cable, direct cable entry <input type="checkbox"/>
Alternative	100BASE-FX, fibre optic cable Ex op is <input type="checkbox"/>
<b>Power supply</b>	24 V DC (standard) <input type="checkbox"/> 230 V AC <input type="checkbox"/> Power Over Ethernet <input type="checkbox"/> (for installation in Zone 1 only)
<b>Connection technology</b>	
<b>100BASE-T (copper CAT6)</b>	
Standard	Direct entry
Alternative	Ex e connection chamber enclosure made of Plastic (series 8146) <input type="checkbox"/> Stainless steel (series 8150) <input type="checkbox"/>
<b>100BASE-FX (fibre optic cable)</b>	
Standard	Connection chamber enclosure <input type="checkbox"/>
Alternative	Direct entry by means of Compound gland <input type="checkbox"/>
<b>Installation of customer-specific WLAN access points</b>	Please specify make and type:  If you desire installation of a customised WLAN access point, please send us the technical documentation, such as data sheets, operating instructions and dimensional drawings, of this product. Unfortunately, we cannot process your request without this information. In this case, the drawing of the enclosure might differ from the dimensional drawings.

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## Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations

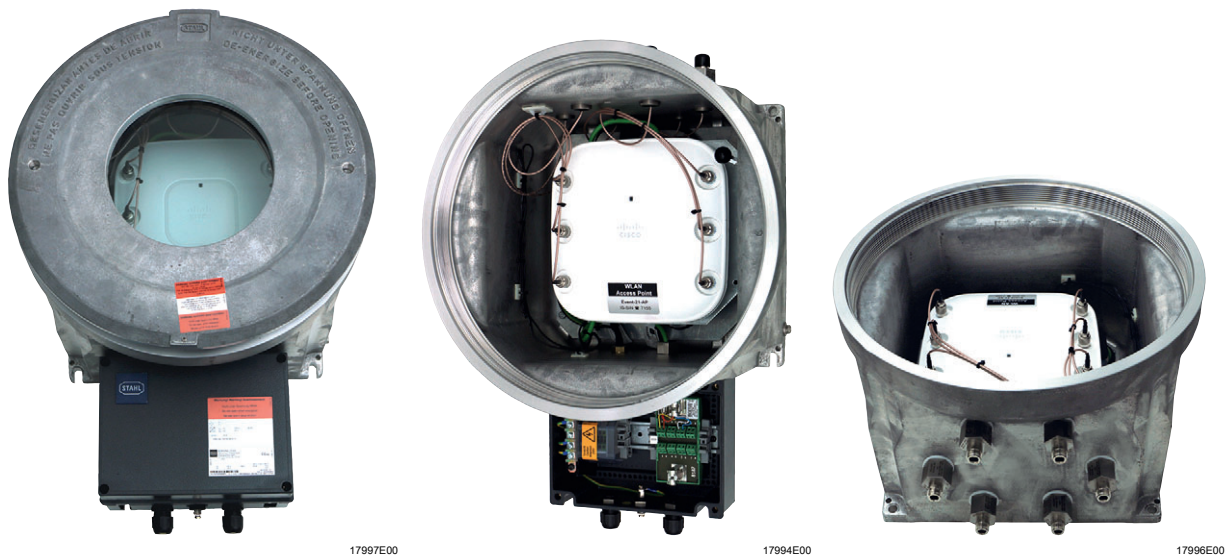


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8265, size 4, external antenna

## Project-specific solutions

e.g. for CISCO AIR-LAP 1262 N-E, Installation in Zone 1  
Dimensions: 520 x 410 x 281 mm



- Full 802.11n functionality
- Allows unrestricted antenna selection
- Status LED visible outside
- Easily accessible connection chamber
- Optional: Use of FO media converter Ex op is
- Optional: FO Splicebox Ex op pr

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.

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