



WLAN Access Point Series 8265

- This compact WLAN access point enables data transmission from PDA, notebook and terminals in hazardous areas.
- Robust aluminium enclosure
- Ingress protection IP 65
- Ambient temperature from -20°C to +60°C
- Standard: IEEE 802.11b/g
- Can be customised, e.g. installation of a customer-specific WLAN access point or other radio technologies
- Optional Ethernet connection via fibre optic cable (Ex op is)
- For use in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22

	Zones					
	0	1	2	20	21	22
Installation in		X	X		X	X

STAHL

The WLAN access point enables wireless data transmission in hazardous areas. This includes, for example, accessing data on company networks, transferring data or controlling processes via the WLAN interface of a PDA or a notebook.

The WLAN access point made by R. STAHL is characterised by a compact design, an easy installation and a robust enclosure suitable for industrial use. Its wide temperature range allows its use in almost all surroundings.

This device complies with the widely used IEEE 802.11b/g standard and can therefore be used for many purposes.

We also offer planning, installation and adjustment in addition to the product.



Technical Data - WLAN Access Point



Explosion protection	Ⓢ II 2 G Ex de IIC T6 Ⓢ II 2 D Ex tD A21 IP66 T80 °C
Installation	in Zones 1, 2 or Zones 21, 22
Power supply	
Operating voltage	24 V DC
Power input	< 10 W
Ambient temperature	
Service temperature	- 20 °C ... + 60 °C
Storage/transport temperature	- 40 °C ... + 70 °C
Approvals	
Safety of information technology equipment	EN 60950: 2000 (IEC 60950)
Radio	EN 300 328-1/2 V1.4.1: 2003, EN 301 489-1, EN 301 489-17, EN 300 328-2, EN 301 893, EN 50371, ETSI EN 301 489-1/17
Enclosure	
Certificates	PTB 06 ATEX 1077
Ingress protection	IP 65
Material	Copper-free aluminium (saltwater-resistant)
Dimensions	depending on version
Paint	without
Transmission rate	
Radio	1 ... 54 Mbit/s
Ethernet	10 / 100 MBit/s
Supported radio standards	802.1x, 802.11b, 802.11g, 802.11i
Data security	WPA, WPA-PSK, WPA2, WPA2-PSK and IEEE 802.1x and encryption methods WEP, AES and TKIP
Industrial Wireless LAN	<ul style="list-style-type: none"> • Link check • IP alive (monitoring for IP connections) • Forced roaming (automatic roaming when connection is interrupted) • Rapid roaming, VLAN, redundant radio link (on request)

Technical Data - Antenna

Version	External antenna	Internal antenna
Explosion protection	Ⓢ II GD EEx e II T6	Ⓢ II 2G EEx de IIC T6 (by Ex d enclosure) Ⓢ II 2 D Ex tD A21 IP66 T80 °C (by Ex d enclosure)
Ingress protection	IP 66	IP 65
Radiation	omni-directional	directional
Vertical beam width	--	100°
Horizontal beam width	--	100°
Polarisation	--	double linear
Gain (peak)	3 dBd	5 dBi
Cable length	4.50 m	--
Frequency range	2.4 GHz	2.4 GHz

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Selection Table - WLAN Access Point

Version	Basic version	Wire-line interface	Antennas	Order number
 <p>11308E00 WLAN Access Point Series 8265</p>	<ul style="list-style-type: none"> Ex d enclosure 8265/54 WLAN access point industrial design 	Ethernet 100BaseTX	1 external, omni-directional antenna Frequency 2.4 GHz Cable length approx. 5 m	8265/ .- External antenna, Version 1
			2 external, omni-directional antennas Frequency 2.4 GHz Cable length approx. 5 m	8265/ .- External antenna, Version 2
	<ul style="list-style-type: none"> Ex d enclosure 8265/54 WLAN access point industrial design Stainless-steel terminal compartment Fibre optic-media converter 	Ethernet 100BaseFX Ex op is, 850 nm	1 external, omni-directional antenna Frequency 2.4 GHz Cable length approx. 5 m	8265/ .- External antenna, Version 3
			2 external, omni-directional antennas Frequency 2.4 GHz Cable length approx. 5 m	8265/ .- External antenna, Version 4
 <p>06315E00 WLAN access point, series 8265, with inspection window</p>	<ul style="list-style-type: none"> Ex d enclosure 8265/54 Inspection window WLAN access point industrial design 	Ethernet 100BaseTX	1 internal, directional antenna Frequency 2.4 GHz	8265/54-1111 Version 5



Selection Table - Service Packages

Version	Description	Order number
	Note: Please arrange with a specialist of R. STAHL for the nature and extent of the services in advance.	
Planning	Planning of the radio coverage using planning software <ul style="list-style-type: none"> Charged at a daily rate Prerequisite: 2D building plans, better 3D, building materials, specification of desired bandwidth and application Result: Location of the access points, detailed documentation and quantity structure Required for package 2 	0000623720 Service package 1
	On-site testing of the planned radio coverage <ul style="list-style-type: none"> Charged at a daily rate Prerequisite: Service package 1 Result: Tested complete radio coverage, incl. detailed documentation and quantity structure 	0000623720 Service package 2
Installation	Set-up / programming <ul style="list-style-type: none"> Project management Prerequisite: Service package 1 Daily rate for 1 technician Number of days depending on project planning 	0000623720 Service package 3
	Assembly / installation <ul style="list-style-type: none"> Project management Prerequisite: Service package 1 Daily rate for 1 assembler Number of days depending on project planning 	0000623720 Service package 4
Testing	Acceptance test <ul style="list-style-type: none"> Verification of the installed WLAN solution Charged at a daily rate 	0000623720 Service package 5

Travel expenses within Germany are included in the service packages.

Additional travel expenses outside Germany

- Charged based on kilometres or as accrued

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 to your request.

General requirements	
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"/>
Ingress protection	IP 54 <input type="checkbox"/> IP 66 <input type="checkbox"/>
Paint	(Ex d enclosure) without <input type="checkbox"/> with <input type="checkbox"/>
External, omni-directional antenna	(data see page 37)
Number	Frequency range 2.4 GHz (standard) 5 GHz 1 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/>
Internal, directional antenna	(data see page 37)
Number	1 <input type="checkbox"/>
Wire-line interface	
Standard	100BaseTx, Ethernet CAT6 cable, direct cable entry <input type="checkbox"/>
Alternative	Fibre optic cable Ex op is <input type="checkbox"/>
Power supply	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)
Profinet connectors	
100BaseTx (copper CAT6)	
Standard	Direct entry
Alternative	Ex e terminal compartment made of Plastic (series 8146) <input type="checkbox"/> Stainless steel (series 8125) <input type="checkbox"/>
100BaseFx (fibre optic cable)	
Standard	Terminal compartment <input type="checkbox"/>
Alternative	Direct entry by means of Compound gland <input type="checkbox"/>
Installation of customer-specific WLAN access points	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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Services

A careful planning and subsequent measurement are absolutely necessary to guarantee trouble-free and safe WLAN operation in industrial environments. R. STAHL offers you numerous services regarding planning, installation and testing of your WLAN in hazardous areas.

This includes:

- Planning of the radio coverage based on building plans, on-site inspections and required bandwidth
- Support and assistance for WLAN access point installation
- Adjustment of the installed radio coverage
- Assistance for implementation into company network

Please answer the following questions so that we can learn about your application in advance and adapt the WLAN solution to your individual requirements.

Please fill in the form and enclose it, together with the above mentioned technical documentation, to your request.

Type of application

(point-to-point connection, infrastructure for implementing WLAN client, production data acquisition, access to LAN / network, terminal - Citrix Client, etc.)

Are there several applications with different safety levels or QoS classes?

(web access, internal access, VoIP / VoWLAN, machine network, VLAN, etc.)

Number of clients

(1-10, 11-30, 31-100, 101-500, 501-1000, 1001-2000, not defined)

Type of client

(PC, terminal, handheld scanner, cameras, Ethernet client, stapler terminal, etc.)

Movement of the clients and speeds

(firmly installed, portable, mobile, moving or carried, which speeds, etc.)

WLAN client roaming

(0 ms latency, under 50 ms, under 150 ms, whatever = 500 ms)

WLAN frequency range

(2.4 GHz, 5 GHz)

Covered area, indoor / outdoor

(hospital, warehouse, explosion class, train station, laboratory, conference room, open space, etc.)

Covered area in square metres

(under 1000 m², 1000-10000 m², over 100000 m²)

Security level

(open access for everyone, low security with static encryption, high security with dynamic encryption, highest security with dynamic encryption (AES), firewall, restriction of the radio coverage to a certain area, etc.)

Is there already a radio application?

(no; if yes - which one and how is it to be replaced/extended?)

Does the building to be covered already exist? Or is the planning just theoretical?

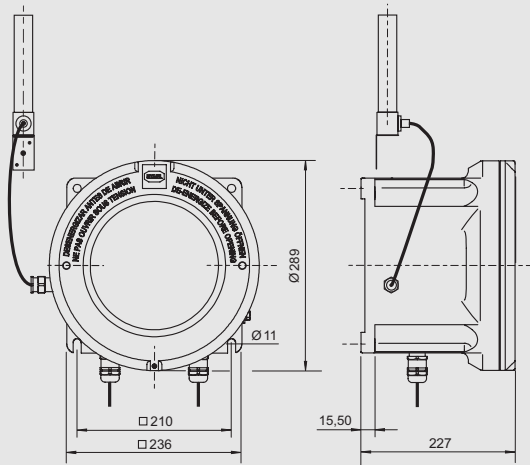
If the building already exists, we prefer on-site measurement.

In case of a theoretical planning, the radio coverage is simulated using SIEMENS Sinema E software.

The following documentation is required:

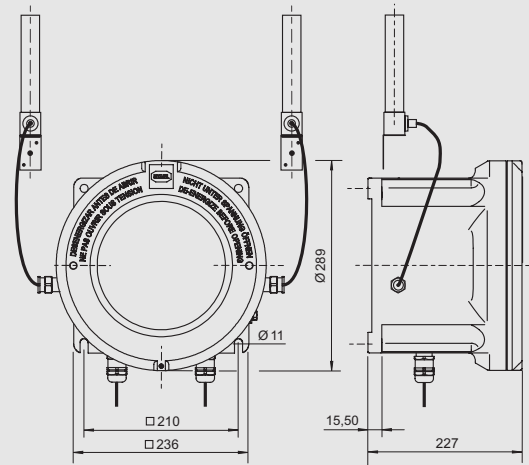
- Building plans (hard copy and digital copy in pdf. format)
- Details regarding materials of walls, ceilings, racks, machines, etc. (only theoretical planning)
- LAN plans

Dimension drawings (all dimensions in mm) - subject to alterations



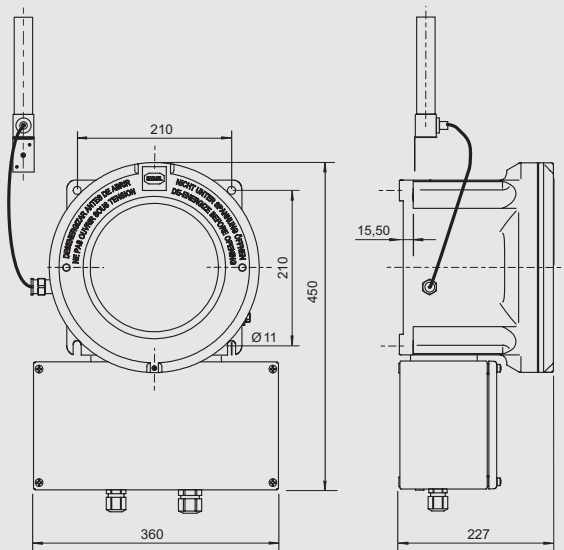
06894E00

8265, size 4, 1 external antenna, version 1



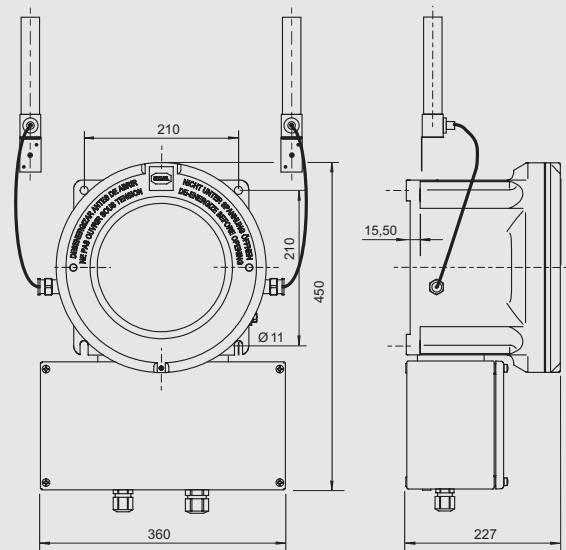
06893E00

8265, size 4, 2 external antennas, version 2



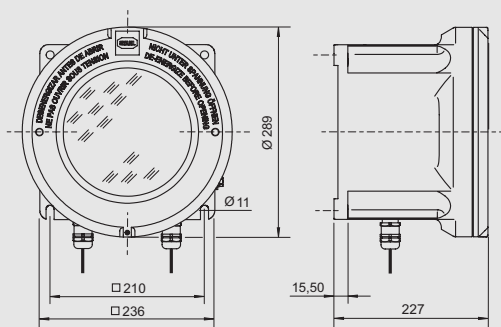
06906E00

8265, size 4 with terminal compartment,
1 external antenna, version 3



06907E00

8265, size 4, with terminal compartment,
2 external antennas, version 4



06254E00

8265, size 4 with inspection window,
1 internal antenna, version 5

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

