

WLAN Access Point Series 9710



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12691E00

- > Compact WLAN access point enables communication with portable devices such as barcode scanner, cameras, PDAs in Zone 2 / Div. 2
- > Open standard conforms to 802.11a/b/g (802.11 n on request)
- > Robust and compact design for use in industrial environment
- > Temperature range -40 ... +60 °C
- > Flexible design for use in Zones 2, 22 and Class 1 Div. 2
- > Field enclosures made of stainless steel with IP66



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The ISwireless WLAN access point Series 9710 is an access point for industrial use which has an Ethernet 100 Base-T connection. The device has a bit rate of up to 54 Mbit/s and supports the standards IEEE 802.11b/g (2.4 GHz ISM band) and 802.11a (5 GHz ISM band). Since it has been designed for the international use, it has many features which qualify it for the industrial use in the process industry.

Applicability for hazardous areas, IGMP Snooping, OFDM for higher noise immunity, repeater mode, an OPC server diagnostics, extended temperature range, high vibration resistance and DIN-rail mounting.

We also offer a version which conforms to 802.11n upon request.

	ATEX					
Zone	0	1	2	20	21	22
Installation in			x ¹⁾			x ¹⁾

¹⁾ Restrictions see table explosion protection
Note: NEC solution on request

WebCode 9710A

WLAN Access Point

Series 9710



Selection Table

Version	Description	Field enclosure	Order number	Weight kg
WLAN access point Series 9710	without enclosure	--	9710/12-11-11	0.800
	integrated in enclosure	made of stainless steel, Series 8150	7145/x	

Explosion Protection

Europe (ATEX)

Gas	⊕ II 3 G Ex nA IIC T5 Gc (requires additional enclosure)
Dust	integrated into enclosure: ⊕ II 3 D Ex tD A21 IP66 T130°C

Certifications and certificates

Certificates	ATEX
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Further parameters

Installation	in Zones 2 and 22
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Technical Data

Wireless

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
Radio licence	FCC part 15, ICES-003, Class A digital apparatus RTT&E, ETS 300-826, ETS 300-328, EN 60950
Use approved in	EU, Russia, Australia, New Zealand, UAE further local certificates on request
Transmission power	2.4 GHz: up to 100 mW (adjustable) 5 GHz: up to 64 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 Legacy WPA TKIP, WEP support MAC ID filter administrator password
Antenna diversity	yes
Configuration	using the integrated web server
Monitoring	using the integrated OPC server

Interfaces

Ethernet	10/100 Base-T connection, RJ45 screened IEEE 802.3, 802.3u, 802.3x
Antenna	2 x RP-SMA sockets

Electrical data

Auxiliary power	
Rated voltage	24 V DC
Voltage range	9 ... 28.8 V DC
Power input	6 W
Power over Ethernet	according to 802.3 af

Ambient conditions

Ambient temperature	-40 ... +60 °C
Storage temperature	-40 ... +80 °C
Relative humidity (no condensation)	≥ 90 %

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Technical Data

Mechanical data

Degree of protection	
Enclosure	IP20
Field enclosure	IP66
Enclosure material	Series 9710 without enclosure: aluminium with DIN-rail mounting Stainless-steel enclosure Series 8150: stainless steel
Dimensions	[mm] (W x H x D) without enclosure: 114 x 117 x 44 in the stainless-steel enclosure: 236 x 178 x 91
Weight	without enclosure: 0.480 kg in the stainless-steel enclosure: 2.7 kg

Accessories and Spare Parts

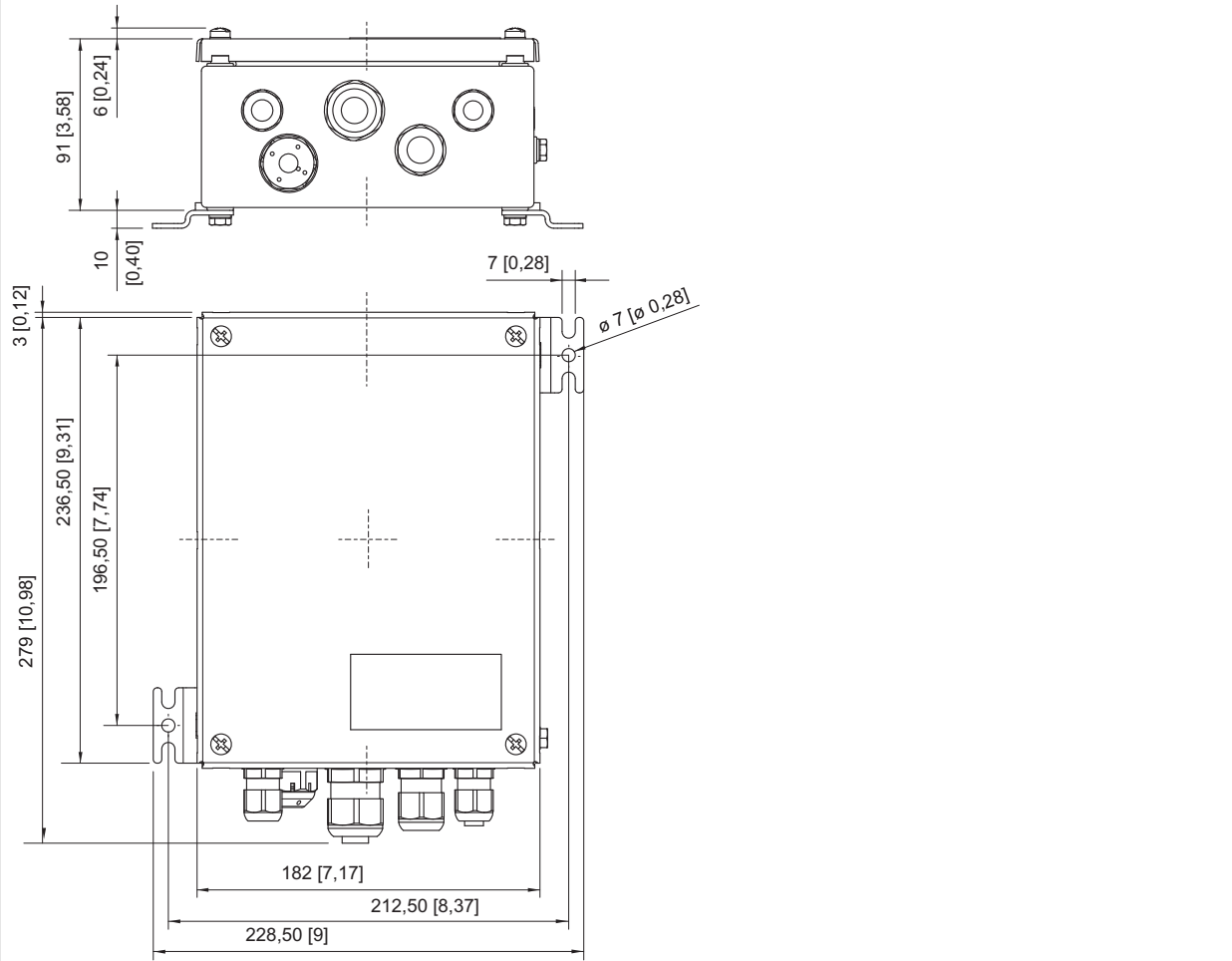
Designation	Description	Art. no.	Weight kg
Antennas	omnidirectional, 2.4 GHz ISM band 4 dBi antenna gain	207404	0.340
	omnidirectional, 2.4 GHz ISM band 6 dBi antenna gain	207405	0.370
	omnidirectional, 5 GHz ISM band 6 dBi antenna gain	207406	0.200
	omnidirectional, 2.4 / 5 GHz ISM band 6/8 dBi antenna gain	207407	0.370
	mounting kit for antenna	207408	0.160
	Antennas for use in the offshore applications are available on request.		0.000
Coaxial cable	antenna - device RP-SMA / N-plug 1.5 m	207411	0.110
	3 m	207410	0.110
	6 m	207409	0.110

A6

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Dimensional Drawings (All Dimensions in mm / inches) - Subject to Alterations



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Series 8125/5061 WLAN Access Point 9710
WLAN Access Point integrated in the stainless-steel enclosure

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.