

Installations

TC Installations Limited

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Part No: TCENC201

- **Flameproof**
- **ATEX II 2GD EEx d IIC T6/T5**
- **Operating Temp. Range -10°C to +50°C IP66**
- **II 2 GD EExd IIC T5/T6 @Ta55°C IP66 T85°C or T100°C**



The iWAP100 has been developed to deploy ethernet networks wirelessly in hazardous areas. Two increased safety omni-directional high performance antennas are used, meaning coverage is greatly enhanced. They can be mounted locally on the enclosure using the brackets supplied or on a wall away from the iWAP100 electronics enclosure so they can be mounted in the optimum position for best coverage of the area.

The iWAP100 is available in many versions and can be supplied with industry leading wireless network manufacturers hardware such as Symbol AP5131 or Cisco Systems AP1200 Access Points for direct connection to ethernet hubs or switches) or the Symbol AP300 Access Port (for connection to a Symbol wireless switch) Network speed is up to 54Mbps and compliant with IEEE 802.11a, b, g and is WiFi certified.

Connection back to the safe area server is via your own IT infrastructure by either CAT5E / STP cable or fibre optic cables.

If the WLAN is outside and the antennas are at risk of lightning strikes surge suppressors can be built in to protect your network hardware. Also a heater can be installed to ensure that condensation or cold is not a problem in installations subjected to cold and high humidity.

Complete systems including site surveys and commissioning are available from T C Installations Limited.

Technical Data:

Component	iWAP 100
Supply Voltage	24v DC or 110-230v AC or power over ethernet (POE) (note heater and fibre options not possible with POE)
Material	Grade LM6 cast alloy with epoxy coating
Mounting	Wall or any flat surface using 4 bolts/screws
Cable entry	Bottom face 2 x M20 & 1 x M25 for data and power connections. Right and left side, 1 x M20 for connection of antenna. Threaded gland entries are for use with certified ATEX Exd glands.
Radio Network	Network hardware dependant - 802.11a,b,g compliant, 54Mbit/s on 2.4 & 5GHz
Interface	iWAP100-4 : RS232, RS422 and RS485
Weight	Approx 14 Kg depending on version
Ambient Temperature	-10°C to +50°C (-20°C to +55°C on request)
Dimensions	280mm x 276mm x 214mm (WxHxD)
IP Rating	IP66
Certification Type	II 2 GD EExd IIC T5/T6 @Ta55°C IP66 T85°C or T100°C
Certification Number	DEMKO 03 ATEX 136110