

iWAP200 Zone 2 Access Point Enclosure



Zone 2 Access Point enclosure system to allow WLAN hardware to be installed in potentially explosive, harsh, wet, and corrosive environments

**ATEX II 3 G Ex nA nL IIC T3 (-40°C ≤ Ta ≤ +70°C)
T4 (-20°C ≤ Ta ≤ +65°C)
T5 (-20°C ≤ Ta ≤ +30°C)**

ATEX II 2D Ex tD A21 IP66 T82°C (-40°C ≤ Ta ≤ +70°C)

Note: ambient temperature depends on whether the enclosure heater or cooler option is fitted

IP66 protection

316L stainless steel construction

Overview

The iWAP200 Zone 2 Access Point Enclosure is designed to deploy wireless networks in hazardous areas. The concept allows installation of equipment from leading WLAN vendors such as Meru, Symbol and Firetide. Each type of Access Point or RF transmitting device is rigorously checked and tested by Extronics and our Notified Body to ensure conformity to the ATEX standards and approvals. This means that Extronics can provide an OEM a solution to enable your WLAN network devices to be installed in hazardous areas. The Extronics iWAP200 is designed for use with one to four standard antennas or Extronics iANT200 series of intrinsically safe antennas for optimum coverage on Chemical Plants, Oil Refineries or Oil & Gas Platforms. Optional features include surge arrestors for lightning suppression in outdoor installations and either single and multimode fibre inputs for the Ethernet, enclosure heating or cooling for low/high temperatures and anti-condensation plus the option of plug and socket cable entry instead of cable glands.

Features and Benefits

OEM Hardware Platform

Providing the WLAN Access Point or RF hardware is within certain size and power dissipating constraints plus does not contain sparking components and has been assessed to be compliant we can install the hardware in our factory. See list overleaf for current models.

Rugged Enclosure

Custom enclosure with IP66 ingress protection made from 316L stainless steel for installation in extremely arduous environments.

Future Proof Infrastructure

As new hardware becomes available it can be assessed by Extronics for compliance to the certification and the existing hardware replaced with the new version meaning you are installing a future proof solution.

Specification

Power Supply	Universal 90-264VAC, 20-28VDC or IEEE802.3af POE
Maximum Power Consumption	Without heating or cooling POE 802.3af or 16W for mains or DC power With cooling 21W With heating and cooling 121W
Enclosure Material	316L Stainless Steel
Ingress Protection	IP66
Weight	Approximately 10 Kg
Dimensions	390 x 286 x 300 mm (h x w x d)
Environmental	Operating temperature: Without heating or cooling -20°C to 55°C With cooling -20°C to 70°C With heating and cooling -40°C to 70°C Storage temperature; -20°C to 70°C Relative humidity; 0 to 95%, non condensing
Input Connections	10/100BaseT Ethernet on RJ45 socket and screw terminals 115V/230VAC input option on screw terminals 24VDC input option on screw terminals Multimode fibre input option on ST connectors Note that connectors may be specified as an option in the ordering data
Output Connections	Dual energy-limited external RF outputs via N-type RF connectors with optional lightning arrestors
Radio	Dependant upon chosen hardware
Antennas	To be used with one or two intrinsically safe antennas (not included) e.g. Extronics iANT200 series or any standard antenna conforming to the conditions of safe use in the Ex certificate
ATEX Certification	Without Heaters ATEX II 3 G Ex nA nL IIC T3 (-20°C ≤ Ta ≤ +70°C) T4 (-20°C ≤ Ta ≤ +65°C) T5 (-20°C ≤ Ta ≤ +30°C) With Heaters ATEX II 3 G Ex nA nL IIC T3 (-40°C ≤ Ta ≤ +70°C) Any Heating Cooling Option ATEX II 2D Ex tD A21 IP66 T82°C (-40°C ≤ Ta ≤ +70°C)

