



# CUSTOM POWER DESIGN

ELECTRONICS CONSULTANTS PROVIDING CUSTOM DESIGN, DEVELOPMENT, TEST & SUPPORT



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## MODEL SM4233 INFORMATION SHEET

### Low Temperature Sealed Enclosure for Intermec Access Point AP2100.

**CAUTION:** High voltage and hot parts inside. Do not open the cabinet door in rain.

**General.** The **Intermec** remote data transfer system relies on a network connected transceiver (Access Point) within range of portable readers. The Access Point contains complex electronics with an operating temperature range of 0C to +50C. If it is necessary to position an access point in an exposed place then an enclosure is needed to control the extremes of temperature range.

The enclosure meets the environmental requirements of IP66. It contains a thermostatically controlled heater to maintain internal temperature above zero in ambient temperatures of -25C (-13F). Other versions are available with a fan system to make the best use of the steel cabinet for cooling, in hot weather, allowing operation in temperatures up to +45C (113F). Lower temperature ratings (to -40C) are available to order.

The body of the enclosure is formed from a single sheet of folded steel, fully seam welded and then protected with polyester powder coat paint in light grey to RAL 7032. The door is provided with two locking latches. Holes (with sealing washers) are provided in each corner of the rear panel to facilitate mounting. Mounting kits for 19 inch racks

are available. Special brackets for fixing to oddly shaped supporting structures can be supplied to special order.

Internal mountings are provided to clamp the Access Point to the back of the enclosure, allowing full access to the unit's connectors when open. Four cable glands are provided for mains, two data fibres, and top antenna, all with sealing to IP66.

Mounting screws for the Access Point and the door keys are included in a small plastic bag taped inside the unit. Included also are spacers which should be fitted around thin fibre optic cables, where they pass through the gland, if the fibre termination unit is fitted outside the cabinet. If the fibre termination unit is inside the case and only one gland is used then the free gland must be plugged with the dowel provided to maintain the integrity of the enclosure.

**Caution:** The enclosure must be installed in compliance with local wiring regulations. This enclosure is supplied on the basis of the user determining the suitability for the purpose and the environment for which it is to be used.

#### Specification.

Environmental:-	To specification IP66
Temperature range:-	-25C (-13F) to +35C (95F).
Humidity:-	Condensing.
Finish:-	Light grey powder coat to RAL 7032
Size:-	400mm wide, 500mm high, 200mm deep.
Weight:-	Less than 20Kg including Access Point.
Fixings:-	Through back panel. 4 x 10mm holes on 375mm by 400mm grid.
Fixing screws:-	Minimum diameter 5mm (No. 12). Sealing washers provided must be used
Mains voltage:-	220 -240V AC 50-60 Hz (other voltages to special order).
Consumption:-	25 watts normally, and with heater running, 85 watts.

Made in the UK.

**Order Code SM4233.**

We reserve the right to change the specification without notice  
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