

TEST CERTIFICATE

CLIENT: Panorama Antennas Ltd
61 Frogmore
London
SW18 1HF

CERTIFICATE NUMBER 6267/2 Issue 1

CUSTOMER ORDER NUMBER Kevin Davies

DATE OF RECEIPT

11 April 2008

TEST ITEM(S)

Part Number	Description
EF-S1-3F	"Easyfit" Covert Internally Mounted Glassmount Antenna 380-400MHz - 3m Cable - FME Socket Fitted
LP390	Low Profile Antenna 380-400MHz - 0.5m Cable - FME Plug Fitted
GM390-4F	Glassmount Antenna 380-400MHz - 4m Cable - FME Socket Fitted External Assembly Only Tested

TEST SPECIFICATION / ISSUE

BS EN 60529, 1992, IPX5 Protection Against Water Jets

DATE OF TEST

18 April 2008

TEST(S) APPLIED

Protection Against Water Jets

Each of the three test items were tested individually, each unit was placed in the water test area, and allowed to temperature stabilise until the temperature differential between the water and the unit was less than 5°C. The unit was then subjected to water from all practicable directions; the test conditions were as follows:

Flow rate: 12.5 l/min

Nozzle: IPX5 compliant (6.3 mm)

Duration: 3 minutes

Temperature/Humidity: 10.1°C / 52.1% rh

RESULT(S) OF TEST

The excess water was removed from the out side of the units. The LP390 was opened and inspected, there was no visible water ingress into the unit. The GM390-4F and the EF-S1-3F were cut open using a sharp knife, there was no visible water ingress into the units, both these parts are moulded plastic so there is no cavity for the water to enter. A performance check was performed by the client and witnessed by Particle Technology; the client reported that all three antennas were working correctly.



Approved by
G J Spicer, MEng
Quality Manager

Date: 02 May 2008