



WIRELESS
BUSINESS UNIT

WPIANTUGMAR120003X

Product Specification For UGM Series ISM 900MHz Band Under-Glass-Mount Antenna And Universal Antenna Radome

Customer Approval Signature: _____
Customer Name: _____

Date Approved: _____

Engineering Approval: _____ NJS _____

Date Approved: _____



Explanation of Part Number

WPIANT UGM A R1 200 03 X

(1) (2) (3) (4) (5) (6) (7)

- 1 – WPI Antenna
- 2- Product Series – Under Glass Mount (UGM)
- 3- Frequency – A = 900MHz ISM band
- 4- Cable type – R1 = RG178
- 5- Cable length (mm) – 200mm
- 6 - Connector style – 03 = RA SMA Plug (Std)



**Fig 1.0 Appearance of Universal
Antenna Radome (Patent Pending)**

Electrical Properties

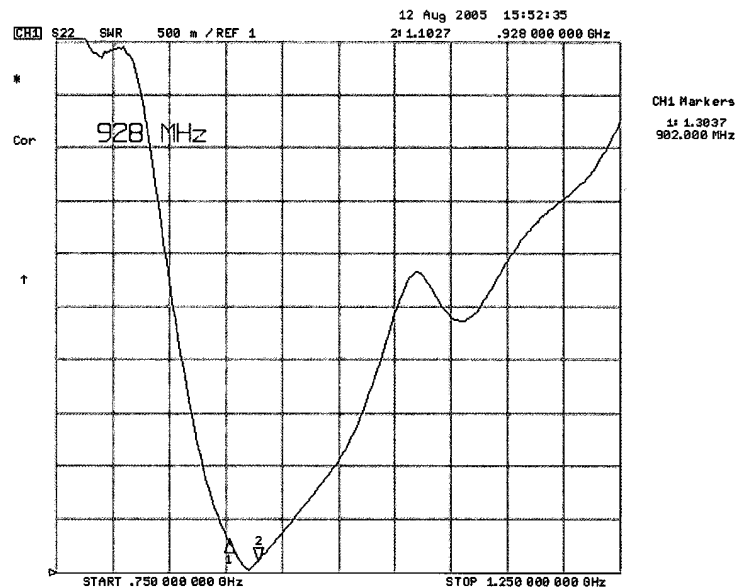
Item	Specification
Frequency Range	902 – 928MHz
Impedance	50Ω (Typ.)
VSWR (Max)	<1.8:1 (installed in Meter)
Gain (Peak) (L&G S4 Meter)	+2.2dBi (typ)
Efficiency (L&G S4 Meter)	69% (typ)
Polarization	Near omni-directional in the horizontal plane
Radiation Pattern	Linear
Power handling (max)	2Watts (+33dBm)

Application

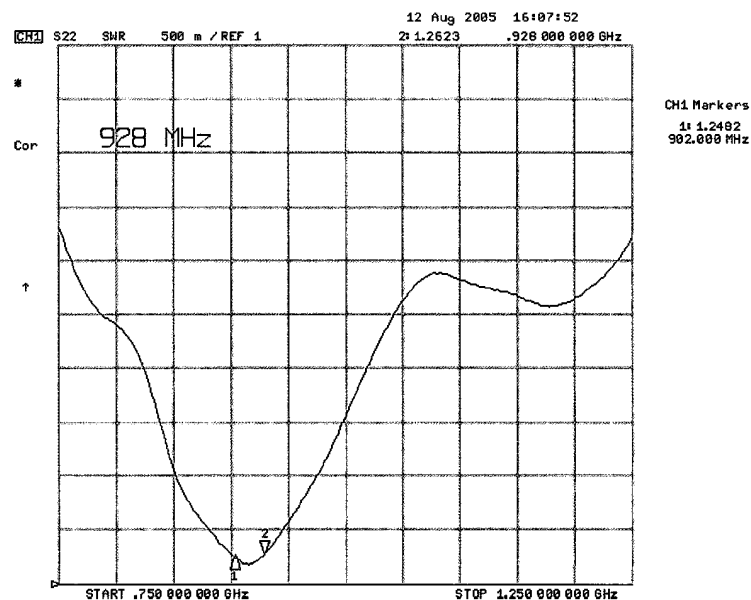
This series of printed flexible circuit antenna is ideal for “under the glass” applications in industrial wireless or Automated Meter Reader (AMR) applications and its’ universal housing (radome) has been specially designed to be a generic fit for most electricity utility meters.



VSWR (typical data -900MHz ISM Band version – as installed in Landis and Gyr AXS4 Meter – 9pm position)



VSWS (typical data -900MHz ISM Band version – as installed in Elster A3T Meter – 3pm position)





Mechanical Properties

Item	Property
RF Coaxial-Cable	RG178 - standard Length 200mm –standard Customer may specify other lengths
Universal Antenna Radome	Semi flexible plastic
Antenna Substrate	Type – FR4 Finish – Black Conformal Coating
RF Coaxial Connector	3.5mm RA SMA Male plug - standard Customer may specify other connectors (RA MMCX etc..)
Operation Temperature :	-30 degrees centigrade to +70 degrees centigrade
Environmental	Meets Standards for UL 94V-0 RoHS Compliant

Mechanical Dimensions

