



- Accurate Measurements with portable analyzer
- True continuous 20W measurement signals
- Embedded DTP, VSWR, DTF option.
- Variable output power 20 dBm to 44 dBm.
- Spectrum Analyzer
- External Battery Pack

AWTs Mini-PIM MP Series PIM analyzers employ innovative compact and lightweight designs, while delivering continuous 20W measurement signals. With this true conformity of PIM standard IEC62037 due to continuous measurement signals, systems are measured under real-world conditions. AWTs Mini PIMs features such as Distance-to-PIM (DTP) or Distance-to-Fault (DTF), allow users to pinpoint and resolve any installation issue, and with that, guarantying highly reliability system installations. Mini PIM analyzers have various functions including spectrum monitoring and field analysis. Mini PIM allows staff in charge of installation and maintenance of telecommunications infrastructure like base stations, repeater and in-building DAS to identify problems before / after installing network systems.

Models

Model	Description	Tx Range (MHz)	Rx Range (MHz)
MP850	AMPS/CDMA	860 ~ 870 / 879 ~ 896	824 ~ 851
MP1800	DCS 1800 /GSM1800	1805 ~ 1812 / 1825 ~ 1880	1710 ~ 1785
MP2100UMTS	UMTS/W-CDMA	2110 ~ 2130 / 2150 ~ 2170	2050 ~ 2070

Other frequencies on request



RF & Microwave Technology

AWT-Global provides advanced telecommunication technology products and analyzers for a variety of RF and Microwave applications.

Mini PIM Test Systems

Field use demands ruggedized yet accurate test instruments. Our Mini PIM testers are designed exactly for these conditions. An optional battery pack allows to operate even if main power is not available. The wide Tx power range from 20dBm to 44dBm makes the MP series analyzers ideal for Macro BTS sites and DAS installations. VSWR, DTF and DTP (opt) can be measured with the push of a button.

PIM Accessories

AWT offers highest quality accessories, including loads, cables and adapters.

Technical Specifications

System	
Measurement Method	Reverse (reflected) PIM, 3rd, 5th, 7th, 9th, 11th up to 23th order)
Residual PIM	< -120 dBm / -163 dBc
User Interface Ports	2x USB 1x LAN
RF Ports	1x RF Output, 7-16 DIN (f) 2x N (f)
Display	8 inch, touch screen

Transmitter	
Frequencies	See table
Frequency increments	100 kHz
Frequency accuracy	2 ppm
Power (per tone)	20 - 44 dBm adjustable
Power Accuracy	TBD
Reverse Pwr. Protection	+43 dBm for 5 sec

Receiver	
Noise Floor (BW: 300 / 1200 Hz)	<-130 / -124 dBm typ
Dynamic Range (typical)	80 dB (ref: -70 dBm)
Max Input Power	0 dBm
Measurement Accuracy	+/- 1.0 dB @ 2 x 43 dBm

Distance to PIM / Distance to VSWR (Opt)	
DTP / DTF resolution	0.1 m
DTP Accuracy	0.5 m (typ.)
DTF Accuracy	0.5 m (typ.)

Electrical	
Main Power	100 - 240V, 50/60Hz
Power consumption	350 Watts (VA)
Battery (opt):	12/24V
Duration:	TBD

Dimensions / Weight	
Mini PIM	457 x 305 x 500 mm 18.0 x 12.0 x 19.7 inches
Weight MP	14 kg / 31 lbs.
Battery:	300 x 249 x 196 mm 11.8 x 9.8 x 7.7 inches
Weight Battery:	4 kg / 8.8 lbs

Environmental	
Operating Temperature	0° - 40° C / 32 - 104 F
Storage Temperature	-20° - 60°C / -4 - 140 F
Ingress Protection	IP66 / IP20 (lid open)
Relative humidity	5% - 85% (non cond.)
Mechanical shock rating	40G

Options & Accessories

Type	Description
MPOPT1	Embedded option for Distance-to-PIM (DTP), Return Loss, VSWR and distance-to-fault (DTF)
MPOPT2	Spectrum Analyzer option (embedded)
MPOPT3	Battery Pack in hard case IP66
PACC2	Accessory Kit: low PIM cable 3m DIN(m)-DIN(m), PLOAD50 low PIM Load 50W / 10W, dual port DIN(m)-DIN(f), PIM <-165 dBc, 690-2800 MHz, torque wrench DIN7/16, (4) adaptors, carrying case IP66
PIMGEN	PIM generator, preset PIM value -80 dBm (+/-10) for quick system tests
PLOAD100	Low PIM load 100W, PIM < -165 dBc, 690-2800 MHz, with handle
PLOAD50	Low PIM load 50W / 10W (25 mins / permanent), PIM < -165 dBc, 690 - 2800 MHz, dual port DIN(m)-DIN(f), with ear for carabiner or strap
LIC308DMDM-2M	Low PIM cable 2m (6ft), PIM < -165 dBc @ 2x43 dBm, DIN(m)-DIN(m)
LIC308DMDM-3M	Low PIM cable 3m (10ft), PIM < -165 dBc @ 2x43 dBm, DIN(m)-DIN(m)

Product Quality

AWT is committed to providing our customers with products meeting the highest quality standards. All AWT products undergo thorough quality checks and are ISO 9001 and ISO 14001 certified.

For more information on any of our products or services please visit our Web site:

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