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Aeroflex - Increases 2975 Testing

Aeroflex continues to improve the versatility of their 2975 P-25 Digital Service Monitor. The following is an excerpt from a Mobile Radio Technology article by Ron Barton:

Protocol is a crucial factor in achieving interoperability between mobile and portable digital radios operating on APCO Project 25-compliant networks. Equally important are test solutions that effectively log and analyze control messages to determine system compatibility.

The traffic and control channel features for both conventional and trunked P25 systems are not specific to any one P25 manufacturer or P25 radio frequency subsystem (RFSS) configuration. All mobiles supporting P25 formats should be able to access any P25 network as specified in the TIA/EIA-102 standard, which defines the operation of P25 systems.

In the P25 standard, control channel operation maintains compatibility between conventional operations in that the modulation format and the bit rate are the same. In the P25 standard, the control channel and the traffic channel is a 9600 b/s channel using C4FM modulation to impart the digital



Aeroflex 2975 P-25 Service Monitor

1s and 0s to the receiving radio. Trunked operations use packet-access techniques and require a registration process to coordinate user access, while the conventional version permits users to control their own access.

The ability to capture and save over-the-air control channel messages provides unique testing capabilities in P25 systems.

To read the entire article, please go to:
http://mrtmag.com/mag/radio_taking_control_project/

For a demonstration of the 2975 P-25 Digital Service Monitor, please give me a call and we'll schedule a date. Ω

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Acterna Technical Assistance Center

Acterna provides complimentary technical assistance through their Technical Assistance Center (TAC) personnel during normal business hours of 8 AM through 6 PM Eastern Time. All you need to do is dial 800-543-1550 and press 3 to get to technical assistance.

The TAC personnel listen to your problem and use a full complement of product to duplicate your problem on their desk, then

help you to a solution.

24/7 Assistance

Problems, however, often don't always accommodate to the boundaries of a normal workday. When you find yourself in the field where the resolution of a problem can't wait until tomorrow, Acterna can provide you with the technical assistance you need 24 hours a day, 7 days a week. Ω

4.9 MHz Mobile Antennas From PCTEL

Elevated Feed 4.9 MHz

If you are taking advantage of the new 4.9 MHz Public Safety Frequencies, PCTEL/Maxrad has several antennas for you.

The BMEFC49005, 4.9 MHz, elevated feed mobile antenna is designed for installations requiring elevation of the antenna over surrounding objects that could prevent true omni directional coverage.

It operates both on and off a ground plane without degradation in VSWR performance. The feed point is elevated 6 inches above its mounting surface, easily clearing the overhead light bars in police and ambulance vehicles which often obstruct and prevent true omni directional coverage.

The antenna has a collinear array design

enclosed in a durable black radome. The Black chrome plated stainless steel shock spring provides maximum resistance to every day wear and tear.

The BMEFC49005 is available with 12' or 17' LMR195 low loss coaxial cable provides optimal performance at 4.9 GHz frequencies. It also has magnetic and permanent mounting options.

For more information on 4.9 MHz antennas, just use your computer and go to:

<http://maxdev.swc.com/cgi/images/catalogs/pdf/4.9GHzBrochure.pdf>

You will see parabolics, planar arrays, base station and mobile antennas. Just call me for more information. Ω



BMEFC49005

Federal Signal Winning Tsunami Warning

The Alaska, Oregon and Washington coastal communities have become aware of the Tsunami. City council meetings and county community meetings have become the platform for residents to ask their government for Tsunami Event warnings.

Washington has developed an All Hazards Alert Broadcast (AHAB) system. The system includes a Federal Warning electronic siren that actually listens to NOAA weather radio and reacts on its own to event "codes" delivered through their



broadcast system. This siren records the message from NOAA and replays it to the community.

The State of Oregon has selected a committee to address the Tsunami Event warning tones at their coast. Local counties have purchased Federal Warning sirens to alert residents and those vacationing in the area of a Tsunami Event.

If you have a siren need of any kind, please give me a call and let us work up a coverage map and quotation. Ω

Federal Warning Systems is becoming the siren of choice for coastal communities concerned with Tsunami events

Multiplier 4,000 and 5,000 mAh Li-Ion

Multiplier Industries again leads the market with the Highest Capacities Available from any battery manufacturer. The new Li-Ion batteries for the Motorola XTS 3000 and 5000 radios have 4,000 mAh & 5,000 mAh capacity. The M8740-LX - 4000 mAh, 7.5 volts, Li-Ion battery has a higher capacity and/or chemistry that is not available from the OEM. Same thing goes for the M8750-LX - 5000 mAh, 7.5 volts, Li-Ion battery.

Each of them have a special charger

control circuit that turns off charger, preventing battery overcharging. The charger's LED display indicates 85% capacity or less, minimizing unnecessary charging. These batteries were designed to be used with any Motorola charger equipped to charge Li-Ion batteries for a XTS-3000/5000 radio.

Multiplier uses only the highest performing Lithium-Ion cells available and rugged polycarbonate housing for extra strength and durability. Ω



M8740-LX

Relm/BK - November Specials

Relm Wireless has a November Special for dealers. All you have to do is buy 5 of any combination of RELM Brand Radios (like the RPV599APIus, RPU499APIus, RPV3000A, RP3600A or RMU45M) at the 1-9 piece price and take 20% off total order.

The RPV3600 is the newest and neatest of the Relm portable radios. It is a 5-watt, 128 channel radio with two-tone decode, vibrate and voice storage. It responds like a pager and talks back like a portable. It is lightweight and has great audio.

All Portables come complete with Battery, Antenna, Belt Clip and Rapid Rate Charger. We have demo radios for you to play with. We can program it on your fre-

quency and tones. All Mobiles come complete with Microphone, Mounting Hardware.

Special runs November 1 Through November 30.

Refurbished DPH's

We have the following refurbished **DPH5102XR 148-174MHz** radios with antenna LAA0820 & LAA0193 battery for \$600. The radio comes with a 2 year warranty. The radio will function as a **conventional analog/digital radio only** i.e. (the radio **CANNOT** have encryption added or trunking). We have a limited stock of radios available, while supply lasts. Please let us know how we can help you. Ω



Refurbished DPH

Bird Technologies Site Analyzer

The SA-6000EX Site Analyzer is Bird's newest user-friendly test solution for installing, maintaining, and troubleshooting all of your antenna and cable systems, from Low-Band VHF through Microwave. Field engineers and technicians rely on this rugged, handheld tool to get the job done. Wireless equipment manufacturers, service providers, and contractors worldwide approve of the analyzer's precision VSWR and Return Loss results. This versatile unit also includes a Digital Power Meter option to accurately measure transmitter power regardless of the

type of digital or analog modulation used. Wideband Power Sensors are available from Bird.

There are now three SA models: the new Model SA-6000EX, frequency range - 25-6000 MHz; the SA-2500EX, frequency range - 780-2500 MHz and the SA-1700EX, frequency range - 25-1700 MHz.

We have an discontinued SA-4000A, frequency range - 25-4000 MHz on sale for \$4,500. This is about a \$3,000 savings over the SA-6000EX. Please let me know if you are interested. Ω

*SA-6000EX
leads a stable of
three Site Analyzer
products from Bird
Technologies*

Otto Communications - General Overview

OTTO Communications designs accessories for the two-way radio market including surveillance kits, wireless accessories, lightweight and heavy-duty headsets, ear hangers, speaker microphones, tactical, fire & HAZMAT communications equipment, racing, dispatch headsets, antennas, batteries and carrying cases.

OTTO accessories are designed for use by public safety, security, surveillance, emergency medical teams, SWAT, fire fighters,

HAZMAT and other law enforcement professionals along with food service, hospitality, entertainment, construction and industrial markets. OTTO Communications supports a wide range of radio platforms providing accessories for most major two-way radios and 911 consoles.

Alster has been their representative since 1998. We thank you, our customers, for the growth you have given Otto products. Please let me how we can help you. Ω



Otto Communications
Genesis

Cliff Peck - Newest Alster Guy

Cliff Peck started with Alster in April, 2005. In his own words, please learn something about him and Alster.

As the newest representative of Alster Communications I really didn't know what to expect when I started in April. I can honestly say that the longer I work with the Alster guys the more honored I am to have been asked to join this group. I have never met a more dedicated group of individuals who care about helping their customers and each other. The other thing that I didn't expect was how receptive my customers were going to be to the new guy, I really appreciate the time that you take out of your busy schedules to talk to me.

My background includes earning a degree in electronics from the University of Montana, College of Technology; and spend-

ing the last five years as the manager of a two-way radio shop.

I would like to thank my family, my wife Neil Marie without her support and encouragement I couldn't have made this transition; and my daughters Micaela and Melina.

ACES 2006

We have selected the locations for ACES 2006; Boise on Monday, October 2; Helena on Wednesday, October 4 and Spokane on Thursday, October 5.

It looks like the Helena ACES will coincide with the Montana APCO Chapter Conference.

We will provide additional information on hotels and seminars in future issues of the Alster News. Thanks for reading. Ω



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