

MLLWAS

MTECH LLWAS

Features

- Latest NCAR Phase III Algorithms
- Licensed from NCARF
- FAA approved Algorithms
- Range of communications options
- Conventional or Ultrasonic Sensors
- Dual server redundancy
- Graphical Map displays
- Solar power option for sensor Sites
- Frangible, Fixed and Tilt Mast options
- Proven reliability in lightning prone areas



Description

Wind shear and microburst can be a severe hazard to aircraft operations in the terminal area.

MTECH Systems is one of the pioneers of Digital Wind Sensor networks for Wind Shear detection at Airports. From the first MTECH installation of a network of 6 Digital Wind sensors at Sydney Airport in 1987, research has been carried out by the University of NSW and that network of sensors is still in operation 24/7/365 after 19 years at one of the worlds busiest airports as well as a number of other major airports. Total operation of MTECH Digital wind sensors is now in excess of 2.5 million hours. The service interval of the MTECH sensors offered for most LLWAS systems is 6-7 years.

Meanwhile the FAA and NCAR developed and refined the LLWAS software which overlays the MTECH network of wind sensors and is integrated into the MTECH AWOS network.

Project Management

The key to successful deployment of an LLWAS system is the correct layout design, which requires a site survey and well considered positioning of sensors. Fortunately, the FAA has deployed many such systems and has published comprehensive guidelines for design of the sensor network. MTECH SYSTEMS follows these siting guidelines closely. Accordingly a site survey is always done after contract award to finalise positions and numbers of sensors. For maximum flexibility MTECH recommends a wireless network for communications, but fibre is the preferred medium for new airports.

System Configuration

The MLLWAS system comprises the following elements:

Wind Sensors and Masts

Wind Data Telemetry Units with Data Communications device

Central Data communications devices,

Dual Servers with MTECH front end software

NCARS data processing modules

Display Systems

Specifications

Specifications	
Wind Sensors	911-AB Cup and Vane Wind Sensor
	911-UWS Ultrasonic Wind Sensor
Telemetry Unit	2060 RTU
Communications Packages	100-CP
	150-CP
	200-CP
	300-CP
Server Computers	IBM or HP servers with MITAS SWS front end and NCAR processor
Display Devices	PPC153T Touchscreen Display
Display Software	MITAS LLWAS module

MTECH Systems Pty Ltd

15 Kevlar Close, Braeside, Victoria, Australia, 3195

Ph: +61 390 241 241

Email: sales@mtechsystems.com

<http://www.mtechsystems.com>