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AWOS Rack-Mounted Central Data Processor

OVERVIEW

Meteorological data are collected for an AWOS (Automated Weather Observing System) by sensors located near a runway, and are then transmitted by the Data Collection Platform (DCP) at the sensor tower to the Central Data Processor (CDP). The rack-mounted CDP consists of a central processor, a hard disk drive, and an optical disk drive. The CDP receives data from the DCP and outputs current weather data to an optional Remote Display System (RDS).

Two CDPs can be operated in a rack to provide redundancy. The dual hot-swappable CDPs allow the system to be safeguarded with backup processing to ensure that, should one CDP be lost, the system will maintain uninterrupted processing and continue to provide accurate data for the safety of aircraft and airport personnel.

A rack-mounted high-resolution display and keyboard touchpad drawer are included in the rack. Networking and an uninterruptible power supply (UPS) can also be installed in the rack.

The CDP's MetObserver software uses an interactive menu system to configure and display the AWOS data. With the click of a mouse, the user can customize the system's operation or access nested menus containing archived sensor output and maintenance data.

- Multiple runway support
- Configurable units and alarms
- Language options
- ATIS and AFTN interface
- Ethernet connectivity
- USB and serial interfaces
- Customizable on request



***CDP Rack with
Dual "Hot-swap" CDPs &
GPS Time Synchronization options***

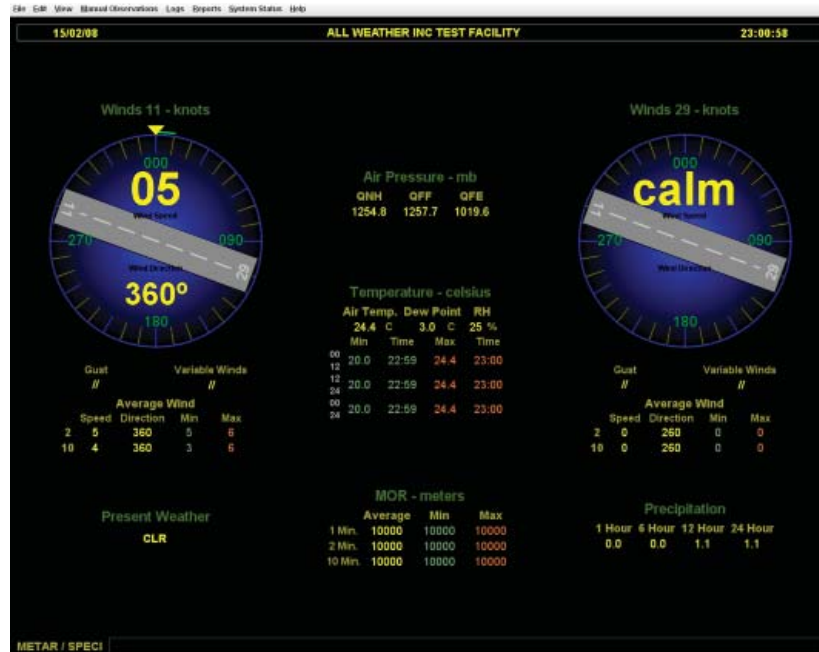
DATA PROCESSORS

SPECIFICATIONS

Parameter	Specification
Chassis	4U ATX chassis with three 5.25" and one 3.5" external drive bays
ATX	500 W with PFC (24-pin power connector and 8-pin power connector)
Motherboard	mATX -Q45 - LGA775 Socket supports up to 8GB of DDR3 1066 MHz memory UDMA133 (4x) SATA-300 - Dual Gigabit Ethernet Intel GMA 400 video VGA output HD Audio (8-channel) PCI (2), PCI-E x16 (1), PCI-E x4 (1)
CPU	Intel Core 2 Duo E8400/3GHZ (1333 MHz) LGA775 socket – L2 6 MB
Memory	800 MHz DDR2 AM2 non-ECC 2 x 512MB
Serial ATA	Built-in SATA2 controller 6x SATA (3 Gbps) drive support 80 GB Barracuda 7200.10 SATA 8 MB cache
Optical Drive	DVD-RAM/±R/±RW 24x 8x 16x SATA internal 5.25"
Rail Slides	20" for 2U-8U chassis (2)
USB Ports	12 USB ports (6 rear USB ports + 2 on-board with 2 internal headers)

ORDERING INFORMATION

Part Number	Description
M403499-00	AWOS Single Rack-Mounted Central Data Processor
M403513-00	AWOS Dual Rack-Mounted Central Data Processor, Hot Swappable
M406112-03	Central Data Processor
M406350-00	Keyboard Touchpad Drawer
M482198-00	19" Flat Panel Monitor
M488602-00	Serial GPS
M497110-00	Black Panel Rack
20913-C	UPS 120 VAC
20913-D	UPS 240 VAC



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