Central Data Platform Model 2090

DATA PROCESSORS

OVERVIEW

Meteorological data are collected for an AWOS (Automated Weather Observing System) by sensors located at the touchdown zone of a runway, and are then transmitted by the Data Collection Platform (DCP) at the sensor tower to the Central Data Platform (CDP). The Model 2090 CDP consists of a central processor, a high-resolution display, a hard disk drive, floppy disk drive, a keyboard, and a mouse. The DCP receives data from the DCP and outputs current weather data to the optional Remote Display System (RDS).

The CDP 's 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.

Up to two 90-second voice remarks can be entered by the operator at the CDP, and these will then be appended to the outgoing voice report. The voice remark is sometimes used in place of an Automatic Terminal Information System, or ATIS. Weather remarks are also entered at the CDP for transmission to the remote displays.

A running record of measured weather conditions and overall system operation is maintained in the CDP's archive files. This data is retained for one year. An archive file is an automatic report written to nonvolatile memory once every five minutes. These archive files may be accessed at any time for viewing or printing using the *Log Menu*, available to authorized users.

SYSTEM UNIT PC

The System Unit PC performs data processing on incoming AWOS data and controls I/O communications with the Peripheral Interface, NADIN Interface, DCP, and peripherals.

NADIN INTERFACE

The optional NADIN interface allows AWOS data to be submitted to the Weather Message Switching Center (WMSC) for dissemination to flight center stations, DUAT, etc.

PERIPHERAL INTERFACE

The Peripheral Interface is housed within a separate enclosure with the Telephone Switch, VHF Radio, optional NADIN interface, and optional UHF radio. The Peripheral Interface provides the circuitry and connections necessary for supporting a NADIN interface, UHF Radio, VHF radio, DCP land line connection, microphone, speakers, and telephone connection.

SPECIFICATIONS

Parameter	Specification
Power Supply	110/120 V AC, 100 W
Operating Temperature	5°C to 40°C
Relative Humidity	5-90% noncondensing
Display	17” LCD (1280 x 1024)
Communication Interfaces	RS-232, RS-485, UHF/VHF radios

ORDERING INFORMATION

Part Number	Description
2090	Central Data Platform
20901	System Unit PC
20909	Peripheral Interface
1791	VHF Radio
1792	VHF Radio
1793	VHF Radio

DIMENSIONS & WEIGHTS

Shipping Dimensions (4 pieces)	24” x 20” x 13” (61.0 cm x 50.8 cm x 33.0 cm) 22” x 10” x 22” (55.9 cm x 25.4 cm x 55.9 cm) 24” x 18” x 10” (61.0 cm x 45.7 cm x 25.4 cm) 20” x 6” x 20” (50.8 cm x 15.2 cm x 50.8 cm)
Shipping Weight (4 pieces)	50 lb (22.68 kg) 12 lb (5.44 kg) 10 lb (4.54 kg) 15 lb (6.80 kg)

All Weather Inc.

www.allweatherinc.com

Phone: 916-928-1000
USA Toll Free: 800-824-5873
Fax: 916-928-1165

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