CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

metcom

Reliable Aviation Meteorology
Whatever the Weather

Overview

Metcom from Campbell Scientific is a complete aviation meteorological monitoring and reporting system forming part of an AWOS solution. Deployable as a single instance for small airfields right up to a dual server system with fully automatic failover for the largest of airports, Metcom is a comprehensive, fully integrated solution built to meet ICAO and CAP standards. Through an integrated and configurable terminal, Metcom provides current real-time information on weather conditions enabling airport personnel to make informed critical decisions.

Interactive displays are provided via an integrated tabbed interface in a browser. All information comes from the central Metcom system allowing for easy deployment. Simply point a compatible browser (on any operating system) and an administrator can select the display that should be assigned there. Displays can include combinations of the following:

- › Live Met
- › METAR
- › Arrivals ATIS
- › Departures ATIS
- › ATIS Manager
- › OPMET
- › Cloud and Visibility
- › Administration

In addition passive displays can be served directly via IP to a browser or distributed using multicast video over IP to screens, thus significantly simplifying installation and operational IT security issues.

Metcom can perform automatic or manual METARs and submit SPECIs, prompting as required. Built-in checks ensures that valid data is available before submitting to the AFTN. METAR information can be set to use a combination of automated values or manual input, fields can be locked or editable as required by the airport. In the event of a sensor failure inputs may be overridden manually.

Metcom Sensors and Processing

Metcom accepts information from a wide range of manufacturers' sensors, thus providing the following data:

- › Air Temperature
- › Relative Humidity
- › Barometric Pressure
- › Wind Speed and Wind Direction
- › Cloud Layer Heights
- › Vertical Visibility
- › Horizontal Visibility
- › Present Weather
- › IRVR (Runway Visual Range)
- › Time Source

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Metcom can accept these inputs directly via a range of common input types, or via an aggregator such as the Campbell Scientific AWOS aggregator. Metcom utilises the incoming information applying additional processing to generate marked discontinuity of wind and visibility, dew point, barometric pressure and sky condition. This centralised processing ensures that, regardless of the sensors used at the airport, Metcom will produce consistent, traceable and compliant information, all of which meets International and National standards defined by ICAO and local airport authorities, including ICAO 9833, CAP 746, CAP 760 and CAP 493.

ATIS

Metcom provides arrivals and departure ATIS. It uses a computer generated audio output that allows you to add pre and post amendments whilst providing vital information on airport conditions for any of the available runways. This includes information on the surface state of a runway, wind shear as well as the status of any navigational aids such as runway lighting, radar or the outer marker and whether low visibility procedures are in effect. Using the ATIS manager operators can define temporary or permanent additions to the ATIS amendments library which are then available to all operators.

OPMET

The OPMET display provides a view of METAR, TAF's and long TAF's received for other airports and allows the operator to filter by identifier and to build a favourites list.

Dual Server Failover

In a dual server configuration Metcom has a primary and secondary server. These remain synchronised and in the event of the unavailability of the server currently in control, will automatically switch over to the other server. Once the failed server has been recovered Metcom will ensure it is re-synchronised, then depending on the configuration, the primary will either return to being the primary or will take the role of secondary.

Metcom Controller

The Metcom controller is designed to simplify deployment of arrivals and departure ATIS audio. It provides an easy way of connecting the audio output from single or dual servers to the audio input of ATIS VHF radio equipment. It also includes PTT (Push-to-Talk) control and additional audio feeds for telephone exchanges requiring ATIS audio. The Metcom controller also provides automated switching of the audio source in a dual server failover configuration.
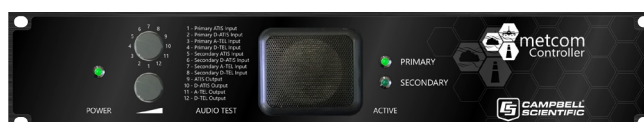
Integrators

For integrators deploying Metcom systems there is a comprehensive configuration tool that allows easy definition of the site characteristics for the intended airport and the ability to tailor the operation accordingly. This is coupled with a key licensing system for easy selection of features. For more information about being a Metcom integrator please contact Campbell Scientific.

Requirements

› Single system - PC running Microsoft Windows 8 or higher.
› Single or dual server system - Microsoft Windows Server 2012 R2 or higher.
› A HTML5 compatible browser such as Internet Explorer, Chrome or Firefox.

For further information please contact our Aviation team on +44(0)1509 828888 or aviation@campbellsci.co.uk