Midas IV AWOS
Reliable Weather Information for Small Airports

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MIDAS IV is an integrated airport weather observing system providing meteorological data acquisition, validation, calculation and storage for pilots and air-traffic controllers. Designed for flexibility and reliability, and based on object-oriented software architecture, the MIDAS IV system is also ideal for small airports.

Vaisala’s MIDAS IV Automatic Weather Observing System has proven its capabilities many times over in large airports. No airport has been too complex; no needs too challenging. The MIDAS IV has offered a new level of performance and ease-of-use. Regardless of airport size, the MIDAS IV is always the right size and grows in tandem with future challenges and changes.

Scalable and flexible system

Now, the MIDAS IV concept has been modified to better meet the needs of small airports. The software packages have been chopped into smaller functions enabling the building of small systems.

At the airport, the MIDAS IV system’s basic building blocks are Vaisala’s sensors for wind, temperature, humidity, pressure, rain, solar radiation,
cloud height and visibility. At
the Air Traffic Control (ATC)
and Met Office, the basic
building blocks are the physical
workstations and software
modules for the various func-
tions, including weather view-
ing, weather report editing,
maintenance and communica-
tion interface to the other sys-
tems.
In both large and small
MIDAS IV systems, the sen-
sors, data loggers, communica-
tion methods, PC software and
hardware modules are the
same; only their number varies.
The systems are built in such a
way that the parts used in a
small system can still be used
when the system is upgraded.
The system can be upgraded so
that either the number of mea-
sured weather data at the air-
port, or the number of work-
stations at the ATC, can be in-
creased, or both.

**Proven product**

The MIDAS IV is the result of
over twenty years’ experience
in the field, offering a reliable
and versatile design that meets
the needs of customers world-
wide. The MIDAS IV has been
specifically designed to utilize
the latest sensors and computer
technology available, thereby
ensuring superior accuracy and
performance in the meas-
urement and reporting of the
ICAO/WMO formatted avia-
tion weather data.

Several recommendations and
standards have been used as
guidelines when designing the
MIDAS IV system. These stan-
dards must also be considered
when designing an actual air-
port system. The most com-
monly used standards are as
follows:

- ICAO Annex 3, 10, 14 for
data processing and report-
ing practices
- WMO No. 306, Manual on
codes for coded meteorolog-
cal reports