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## Introducing the Vaisala Radiosonde RS92-KL New Radiosonde with Loran-C Windfinding

Complementing the new Vaisala Radiosonde RS92 family, the version with Loran-C windfinding and analog data transmission is now available. The Vaisala Radiosonde RS92-KL incorporates the same fast-response pressure, temperature and humidity (PTU) sensors that are used in the Vaisala Radiosonde RS90 family. Providing proven PTU measurement performance, the RS92-KL will also make the transition to new windfinding easier, should the possible phaseout of the Loran-C network occur in the future.



**T**he Vaisala Radiosonde RS92-KL is the most recent addition to the RS92 product family, which was launched in 2003 with the introduction of the GPS windfinding and digital telemetry model. The product family also comprises a PTU-only model, the RS92-K.

The RS92-KL uses analog data transmission and has the same fast-response PTU sensors that are used in the Vaisala Radiosonde RS90 family: the Vaisala BAROCAP<sup>®</sup> pressure sensor, the Vaisala F-THERMOCAP<sup>®</sup> temperature sensor and the Vaisala H-HUMICAP<sup>®</sup> humidity sensor. Moreover, the RS92-KL version of the RS92 offers an automatic reconditioning procedure for humidity sensors as a new feature. The prior-to-flight automatic reconditioning procedure removes any contam-

*The Vaisala Radiosonde RS92-KL operates with analog telemetry and utilizes Loran-C windfinding.*

ination from the humidity sensor surface and thus eliminates the so-called dry-bias phenomena of RH measurement. Consequently, the PTU measurement performance of the analog Vaisala Radiosonde is equivalent to or better than that of the Vaisala Radiosonde RS90 family. All of the PTU sensors are calibrated with the Vaisala CAL4 calibration machine.

### **Preparing for the transition to new windfinding technology**

The RS92-KL utilizes the Loran-C navigation network for windfinding. This means that you can go on using Loran-C windfinding while getting ready for its possible phaseout. Should this take place in the future, transition to another windfinding technology will be easier as you will have already adapted the RS92 sounding platform.

### **Economical telemetry**

The Vaisala Radiosonde RS92-KL operates over a conventional analog telemetry link of 400 MHz. In this way an effective windfinding method is offered at a low cost, thanks to the simple implementation of the Loran-C signal relay link.

### **Easy ground check procedure**

Ground check for the RS92-KL is performed with the new Vaisala Ground Check Set GC25 in a stand-alone capacity. However, if you use the Vaisala DigiCORA<sup>®</sup> Sounding System MW21, the RS92-KL's calibration coefficients can be fed into the system from a diskette or CD-rom. In the near future it will be possible to feed the calibration coefficients automatically from the GC25 to the Vaisala DigiCORA<sup>®</sup> Sounding System MW21 via a cable link. ●