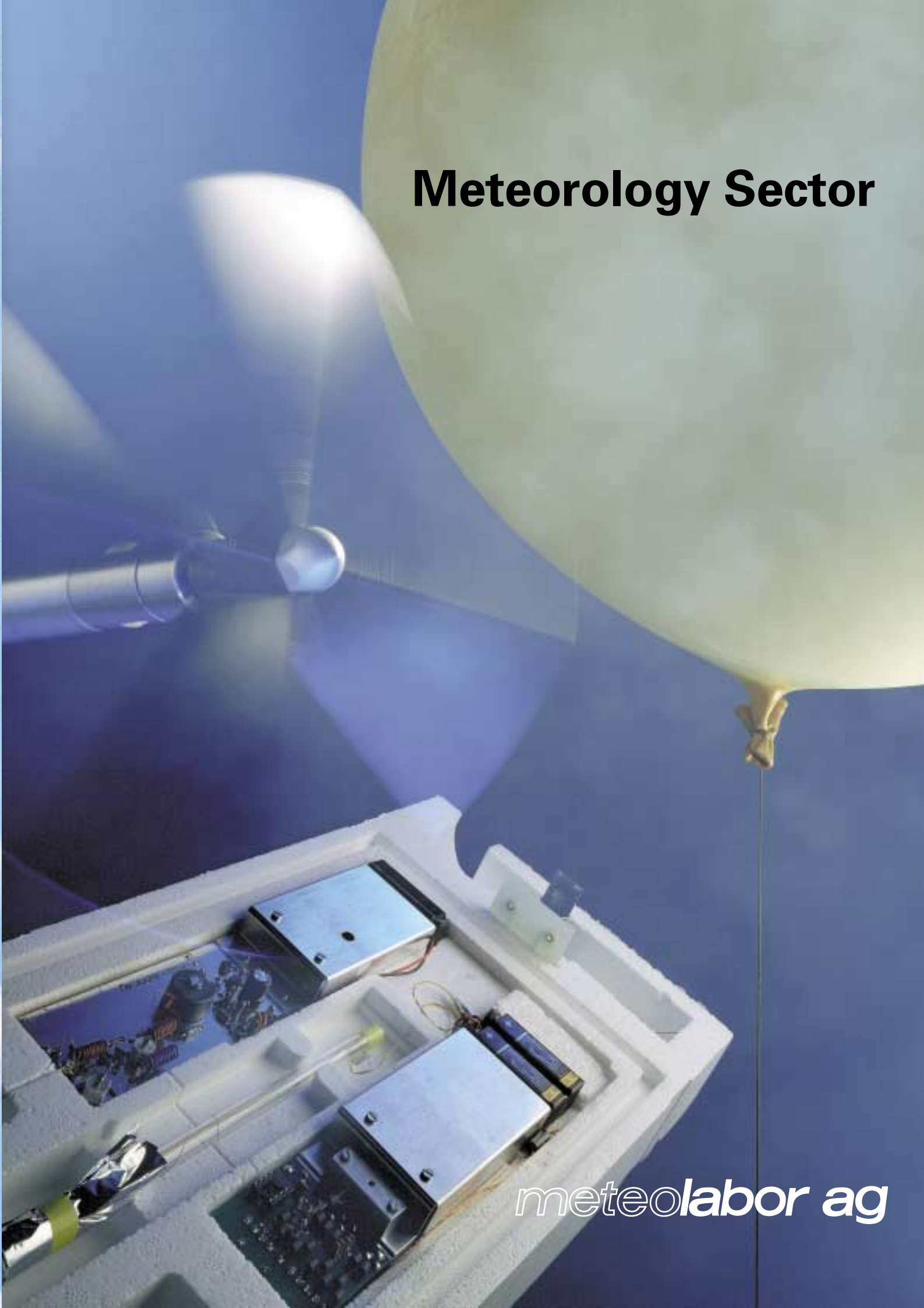


Meteorology Sector



meteolabor ag

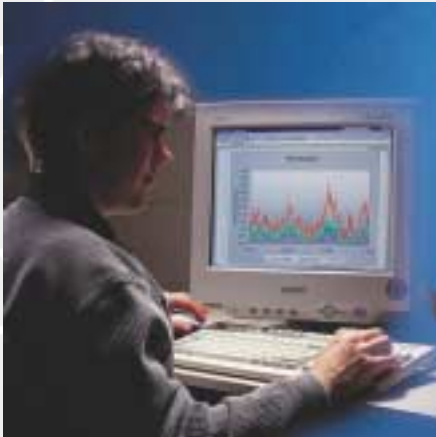
MeteoBus

Our sensors can be operated either via RS232 interfaces on any PC or a control unit, or be interconnected via the MeteoBus to a weather station. Additional information can be found in our separate brochure "MeteoBus".



Evaluation software

Display, storage and transmission of meteorological data. Scalable solutions for individual measuring instruments, weather stations, installations or entire meteorological measurement networks. Support of data bases, distribution of the data via radio links, GSM, Internet, dial-up lines or point-to-point lines.



TMUX

Thermo multiplexer for measurement and storage of up to 40 temperature readings. Absolute and differential measurement possible. Data output RS232 or MeteoBus.



Thygan

Thermohygrometer for accurate, reliable and maintenance-free temperature and humidity measurement. Humidity measurement with dew point mirror. Suitable for use in difficult environments such as at high altitudes where ice build-up is possible. Recommended by the World Organization for Meteorology as a working reference.



CU-VTP

Control unit for thermohygrometer Thygan. Data output RS232 or MeteoBus.



VT3, VT36

Ventilated thermometer for measuring temperatures outdoors. VT3 available with analog output, VT36 with MeteoBus or RS232 output.



WNZ, WN, WMSC

Rugged, reliable and accurate wind gauges, for use in difficult environment. Data output RS232 or MeteoBus.



Sensorinterface IS

Interface for connecting radiation measuring instruments, rain gauges, temperature and brightness measuring instruments of various makes to the MeteoBus. Data output RS232 or MeteoBus.



HG34, HG1

Photometer, brightness meter for determining the brightness in the range of 0.5×10^{-3} to 2.0×10^5 Lux.



NOWA

Anemometer without moving parts for use under icing conditions at high altitudes. Air velocities from 0.3 to 290 km/h. Data output RS232 or MeteoBus.



Columbus CS

A dew point sensor derived from the Thygan instrument will be used in the ISS space station beginning in the year 2004. It is designed for maintenance-free service for at least 20 years.



BM35

Precision atmospheric pressure measuring instrument with resonance pressure sensing cell. Data output RS232 or MeteoBus.



Klimet A30

Instrument for high-precision measurement of atmospheric pressure, temperature and humidity in indoor rooms.



Lumbricus

Soil moisture measuring instrument on high-frequency basis, developed in cooperation with the Research Center Karlsruhe. The unit measures the profile of the soil moisture content with an accuracy of 1.5% and a resolution of 20mm up to depths of 2.5 meters.



TP3S

Compact, hand-held measuring instrument for accurate humidity measurement by means of dew point mirror.



GB1

Precision atmospheric pressure measuring instrument with aneroid capsule.



Radio sounding systems

Radio sond systems for military and civilian weather balloon radar systems. Our radio sond systems are based on the principle of the secondary radar and can be used independently of GPS and Loran. Systems for the 400 MHz or 1700 MHz range are produced to customer orders.



RAWIN

Wind sonde, measures temperature, wind direction and wind velocity. Used by military and civilian meteorological services. The sonde can be used several times.



SRS-C34

The new SRS-C34 radio sonde is equipped with its own microprocessor and is particularly suited to scientific applications. GPS, dew point sensors or own experiments can be added modularly. The new system allows sounding applications with low cost on the receiving side.

SRS

The Swiss Radio Sonde SRS measures temperature, humidity, atmospheric pressure, wind direction and wind velocity. Used by military and civilian meteorological services. The sonde can be used several times.



SnowWhite

Accurate water vapor measurement with radio sondes. SnowWhite is a dew point mirror hygrometer that supplements radio sondes which allows more accurate determination of the water content.



EMC

Examples of EMC components for the protection of electronic devices and systems against lightning discharges and nuclear electromagnetic pulses (NEMP).

Consultation and EMC project management for civilian and military installations and systems.

Please ask for our separate documentation on the EMC sector.

