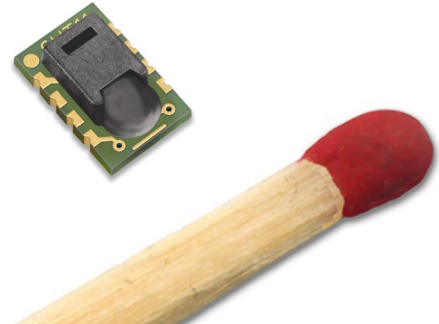


# SHT1x

## Humidity & Temperature Sensmitter

- \_ Relative humidity and temperature sensors
- \_ Dew point
- \_ Fully calibrated, digital output
- \_ No external components required
- \_ Ultra low power consumption
- \_ Surface mountable package
- \_ Excellent long-term stability
- \_ Small size
- \_ Automatic power down



Preliminary Information February 2002

### SHT1x Product Summary

The SHT1x is a single chip relative humidity and temperature multi sensor module comprising a calibrated digital output. Application of industrial CMOS processes with customized post processing (CMOSens™ technology) ensures highest reliability and excellent long term stability. The device includes two calibrated microsensors for relative humidity and temperature which are seamlessly coupled to a 14bit analog to digital converter and a serial interface circuit on the same chip. This results in superior signal quality, a fast response time and insensitivity to external disturbances (EMC) at a very competitive price.

Each sensor is calibrated in a precision humidity chamber and the calibration coefficients are programmed into the

OTP memory. These coefficients are used internally during measurements to calibrate the signals from the sensors.

The 2-wire serial interface allows easy and fast system integration. Its tiny (7x5x3mm) size and low power consumption makes it the ultimate choice for even the most demanding applications including automotive, instrumentation, medical equipment, heating, ventilation and air conditioning systems (HVAC), portable consumer electronics and battery-operated controllers.

The device is supplied in a surface-mountable LCC type package. Other packaging options are available on request.

### SHT1x Single Chip Relative Humidity and Temperature Sensor Module

