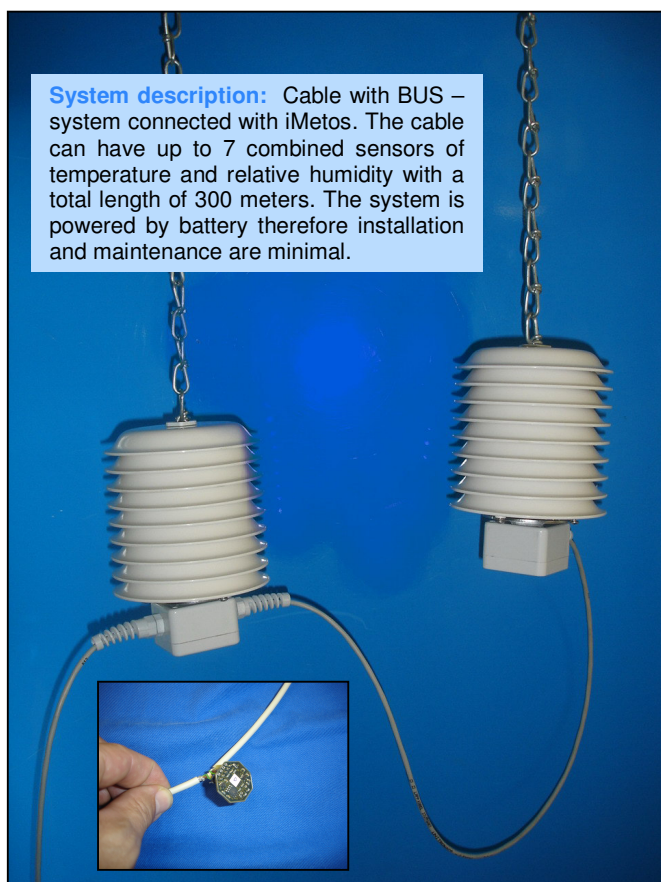


## iMetos® Temperature and Relative Humidity Arrays „SK7“

### Why you need SK7?

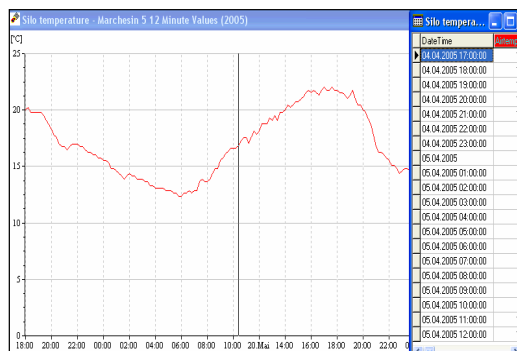
With the intelligent sensor chain arrays „SK7“ one iMetos sensor channel can measure on one cable up to 7 different temperatures and relative humidities (Bus-System). If no other channel is used on the iMetos a total number of 4 sensor channel inputs with four independent sensor chains (max. 28 temperature and relative humidity sensors) can be measured on one iMetos®. The intelligent temperature and relative humidity chain arrays are the ideal solution for continuous measuring and control tasks in greenhouses, small and large plastic tunnels. iMetos® is logging all data continuously and sends it permanently to the internet database. The user is able to log on with his secret password and can see all his data from the greenhouse and/or plastic tunnel close to real time. He can also comfortably program the individual thresholds in this webpage (too high or too low temperature or relative humidity). In case that one or more thresholds are exceeded the system will automatically send SMS (text message) with time, date and value to one or more mobile phones. With this technology you are able to make smart decisions and control independently from time and present location. You are always in “online control” with your greenhouses and plastic tunnels wherever your physical presence might be and in case of a technical problem with the automatic control the alert is given instantly and you will know this time and will hence prevent bigger damages.



**System description:** Cable with BUS – system connected with iMetos. The cable can have up to 7 combined sensors of temperature and relative humidity with a total length of 300 meters. The system is powered by battery therefore installation and maintenance are minimal.

### System components:

- iMetos® Data logger** - An iMetos with active SIM card, free sensor channels and GPRS coverage on the spot.
- Sensor cable** – The maximal total length of sensor cable can be 300 meters. The standard distance between the sensors is 30 meters. (on request other distances are available).
- IP65 distribution box** – The connection between the individual sensors takes place through water tight connectors (PG) and soldered between the connections.
- Convections cap and mounting device** – Optimal convection for the temperature and relative humidity sensors is assured through a naturally ventilated protection shield in which the mounting device is integrated.



### Technical Data:

**SK7 – Temperature 1/2/3/4/5/6/7 –**  
 Specify cable length (max. 300 mts) and quantity of sensors

**SK7 – Temp./Relative Hum. 1/2/3/4/5/6/7 –**  
 Specify cable length (max. 300 mts) and quantity of sensors

Resolution temperature measurement: 0,1 °C  
 Precision temperature measurement: +/- 0,3 °C  
 Resolution Relative humidity: 1 %  
 Precision Relative humidity: +/- 3 %  
 Measuring interval: adjustable  
 Convection cap: naturally ventilated

### The advantages of Pessl Instruments sensor chains:

The biggest problem of most other sensor cables is the complicated installation and permanent power supply from mains. The sensor chain array „SK7“ is powered by batteries and completely independent from mains and perfect as backup system for automation solutions in greenhouses etc. The intelligent cable system from Pessl Instruments GmbH is using latest BUS technologies as a cost effective and secure solution. The permanent logging and control system detects every dangerous raise and drop of temperature/relative humidity instantly in order to apply timely solutions. The system monitors and stores also permanently the temperature/relative humidity and will trigger alarms via SMS directly through the GSM network without going through the server of the webpage. Installation is simple, fast and secure.