

# THIES Clima

## Weather and Environmental monitoring Technology

- Building Control Systems Overview

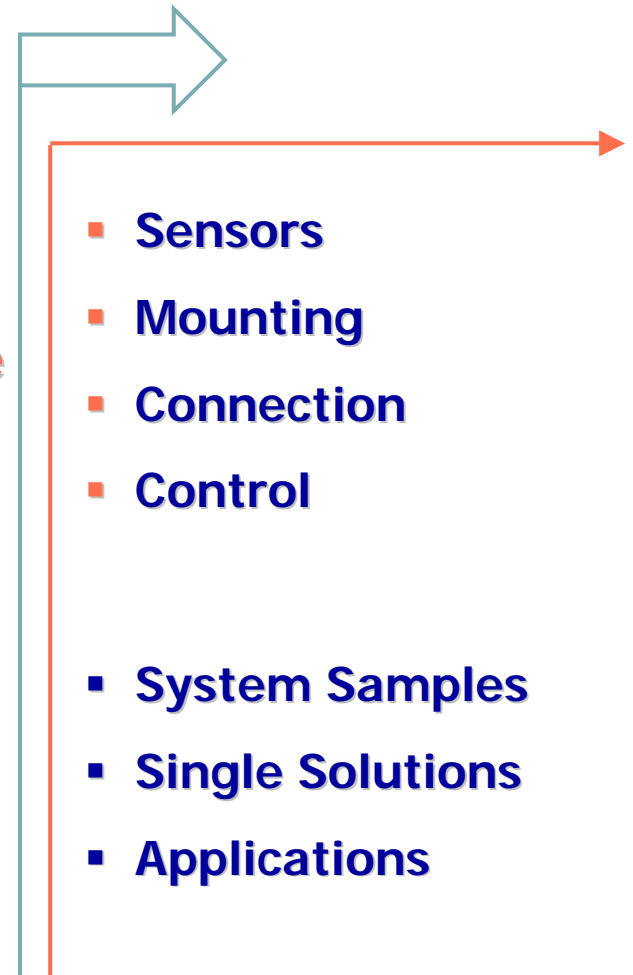


# THE WORLD OF WEATHER DATA

# Building Control Systems Overview



- **Wind**
- **Humidity · Temperature · Pressure**
- **Brightness · Radiation**
- **Precipitation**



# Meteorological Sensors (1)



## ■ Wind



Ultrasonic



Classic Combined...



... separate



Compact

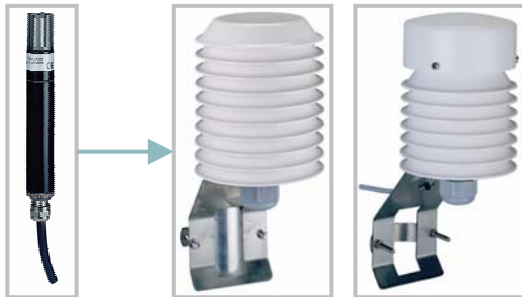


Small Wind Transmitter/ Clima Sensor



# Meteorological Sensors (2)

## ■ Humidity · Temperature · Pressure



Humidity-Thermo Transmitter Compact (With/w/o Ventilation)



Clima Sensor



Pressure Transmitter



# Meteorological Sensors (3)



## ▪ Brightness · Radiation · Twilight



Brightness Transmitter direction independent



Clima Sensor



... and direction oriented

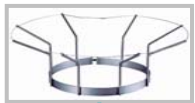


Pyranometer



# Meteorological Sensors (4)

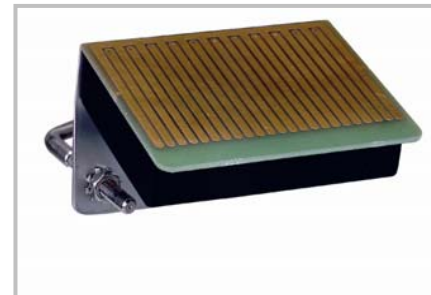
## ■ Precipitation



Precipitation Transmitter with Bird Protection



Precipitation Monitor optical



... Surface



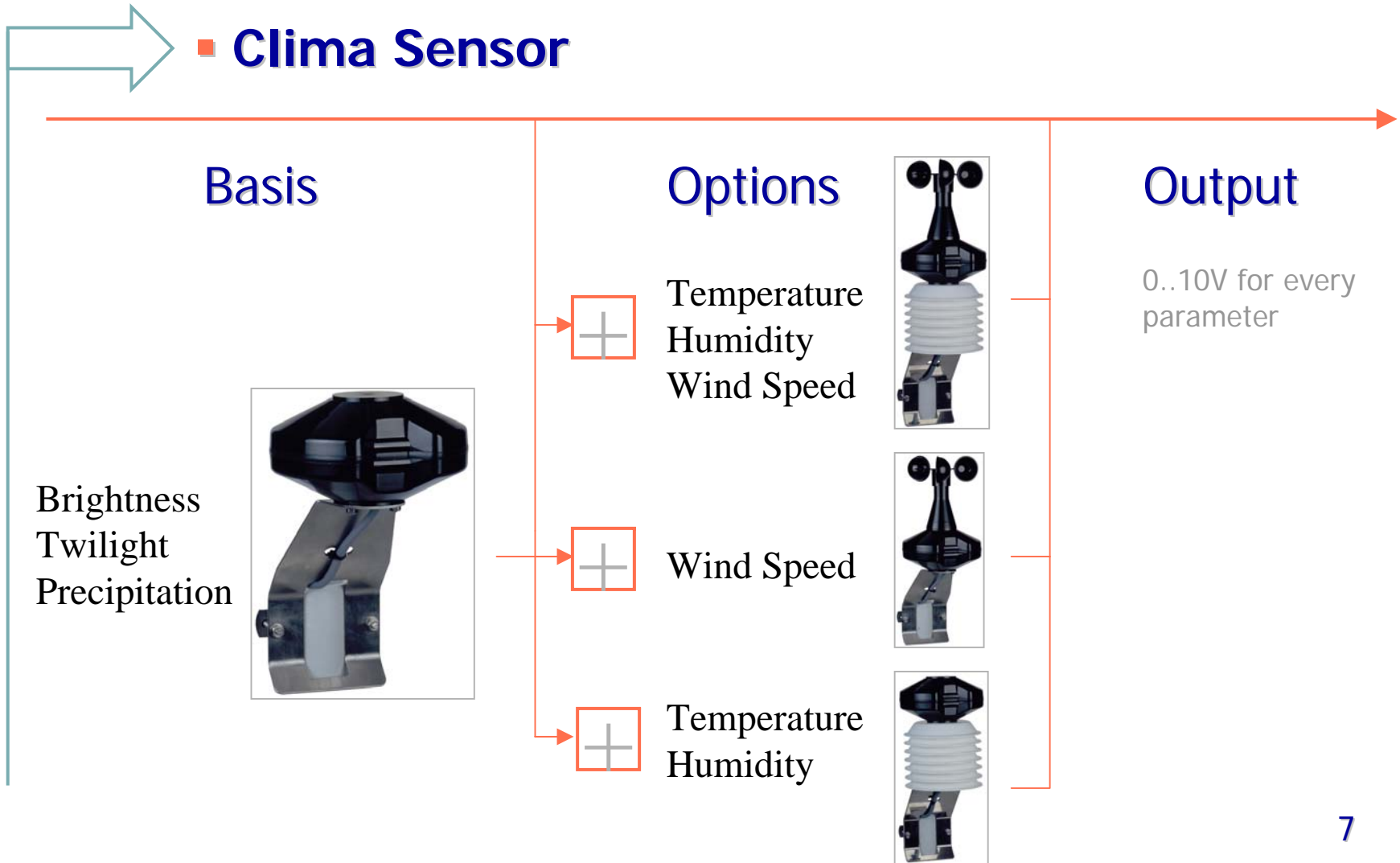
Clima Sensor



Laser Precipitation Monitor

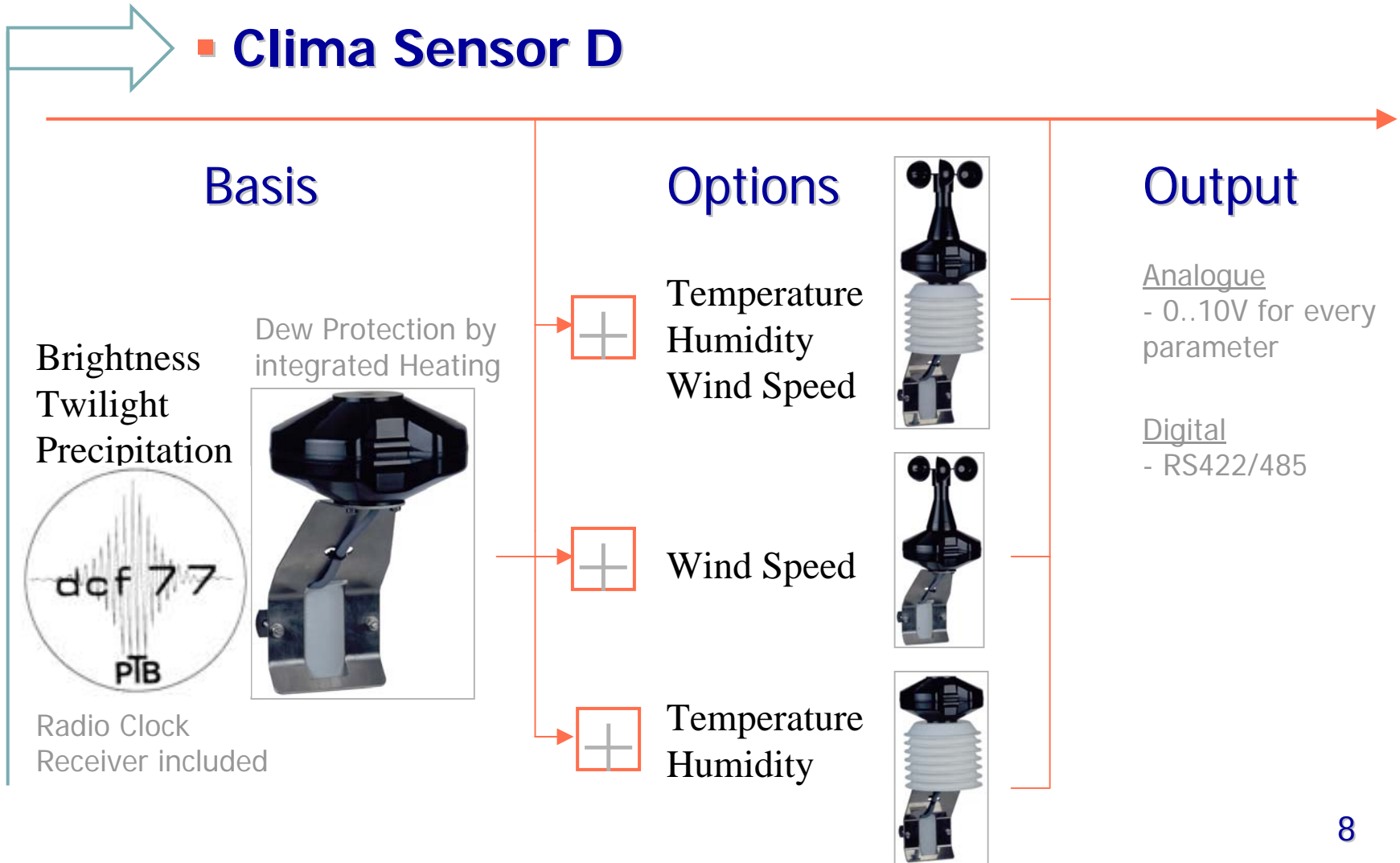
# Meteorological Sensors (5)

## ■ Clima Sensor



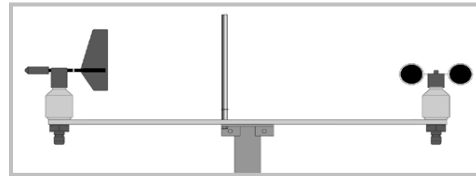
# Meteorological Sensors (6)

## ■ Clima Sensor D



# Mounting (1)

- Hangars, Holder, Traverse, Masts ...



# Mounting (2)



## ■ Mounting Samples: Wall



Instrument with Wall clamps



Tilting device with Telescopic Mast  
(Available: 4, 6, 10 and 12 m without tensioning rope)



# Mounting (3)



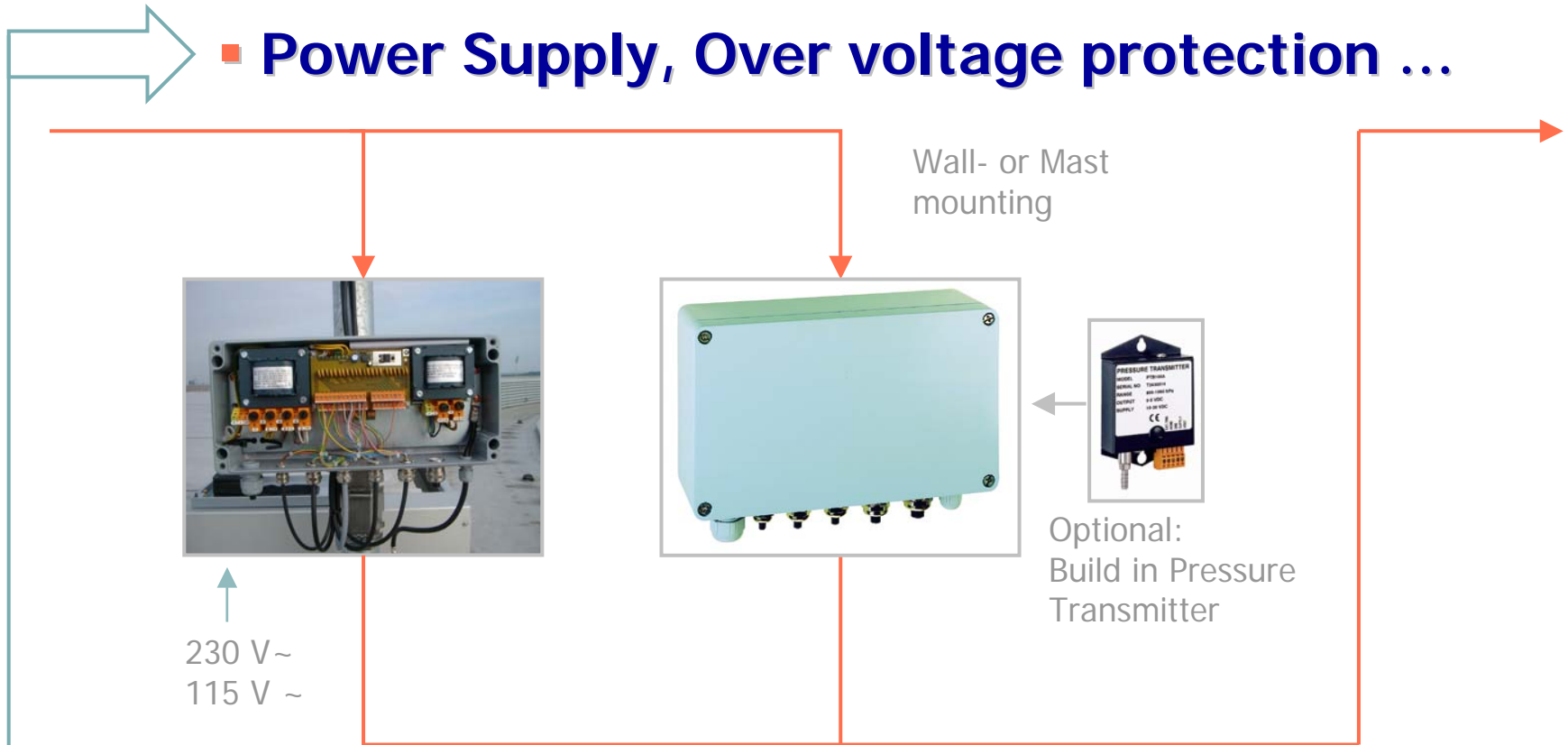
- **Mounting Samples: Roof**



Base Plate  
Flat Roof installation

# Connection

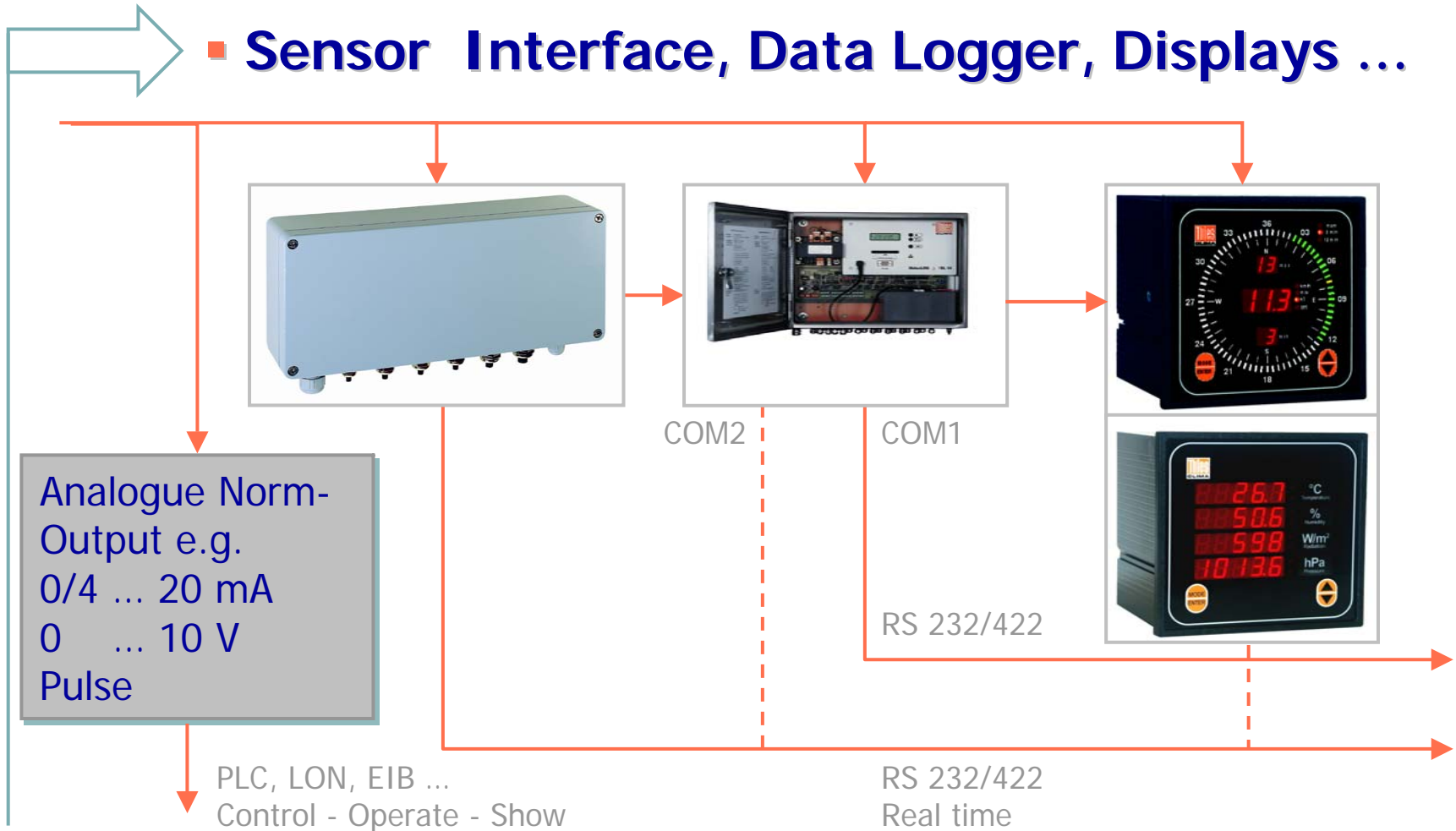
## ■ Power Supply, Over voltage protection ...



Connection Boxes with integrated Over voltage protection, Power Supply and Signal distribution.

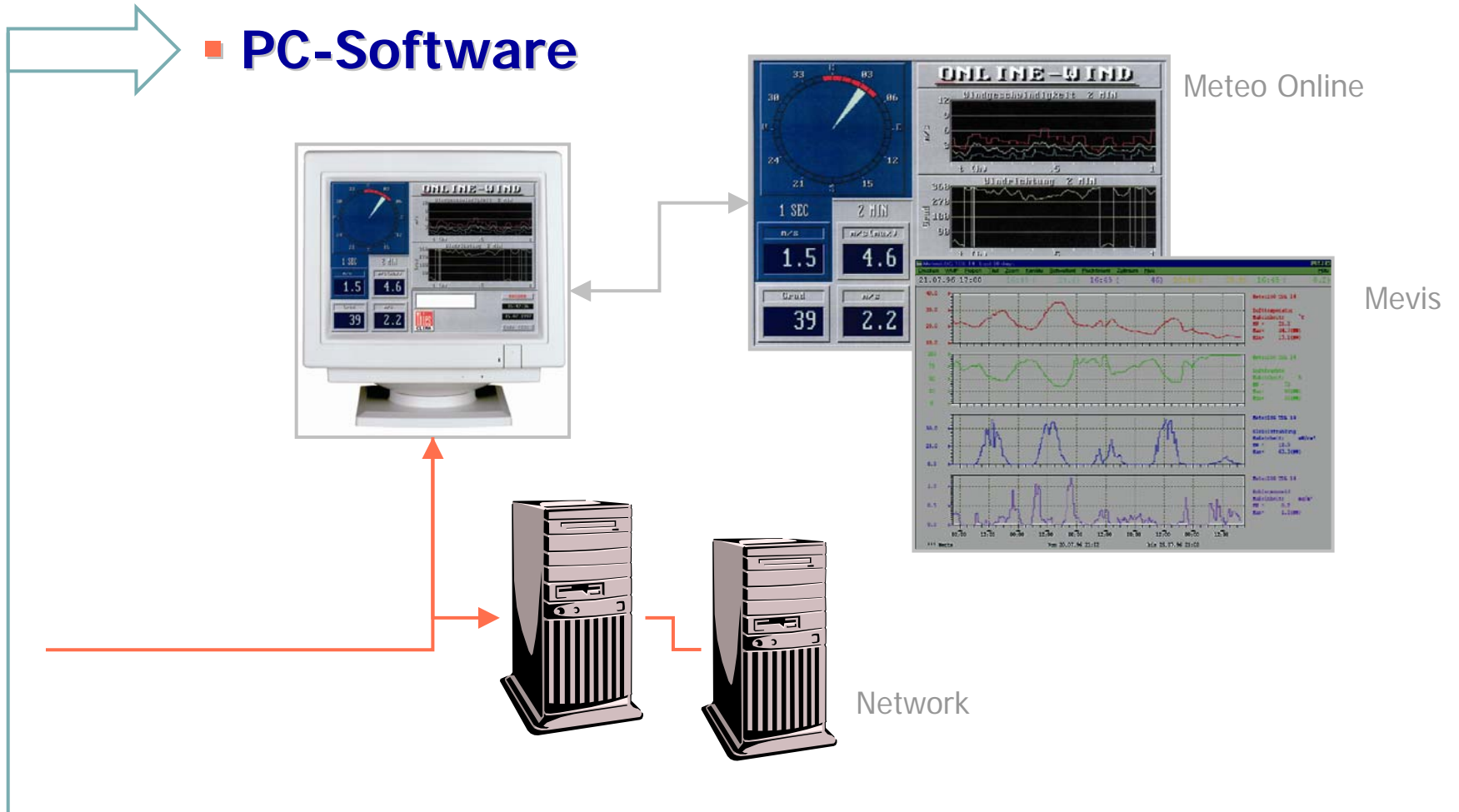
# Control (1)

## ■ Sensor Interface, Data Logger, Displays ...



# Control (2)

## ■ PC-Software



# System Samples (1)



- Lightning Rod
- Wind Transmitter Compact
- Brightness Transmitter
- Precipitation Monitor
- Hygro-Thermo Transmitter (Compact)
- Connection Box
- Mast/Clamps



- Lightning Rod
- Wind Transmitter Compact
- Hygro-Thermo Transmitter (Compact)
- Data Logger
- Mast/Clamps/Base Plate
- Precipitation Transmitter
- Stand

# System Samples (2)



Lightning Rod  
Wind transmitter Classic  
(Combined  
Brightness Transmitter

Precipitation Monitor

Connection Box  
Mast/Wall Clamps



Lightning Rod  
Ultrasonic Anemometer

Radiation Transmitter  
Precipitation Transmitter

Special Radiation Housing  
wit Brightness Transmitters  
(For Direction Oriented  
Discrimination)

Hygro-Thermo Transmitter  
(Classic)  
Brightness Transmitter  
(Direction Independent)

Data Logger

Mast/Supports/Clamps

# System Samples (3)



- Lightning Rod
- Wind Transmitter Compact
- Hygro-Thermo Transmitter (Compact)
- Special Radiation Housing with Brightness Transmitter (For Direction Oriented Discrimination)
- Connection Box
- Mast



- Lightning Rod
- Wind Transmitter Classic (separate)
- Radiation Transmitter
- Sunshine Duration-Sensor
- Telescopic Mast
- Connection Box
- Tilting Device

# System Samples (4)



Lightning Rod

Wind Transmitter Compact

Precipitation Monitor  
Brightness Transmitter  
Radiation Transmitter  
Hygro-Thermo Transmitter  
(Compact)

Special Radiation Housing  
with Brightness Transmitters  
(For Direction Oriented  
Discrimination)

# Single Solutions (1)

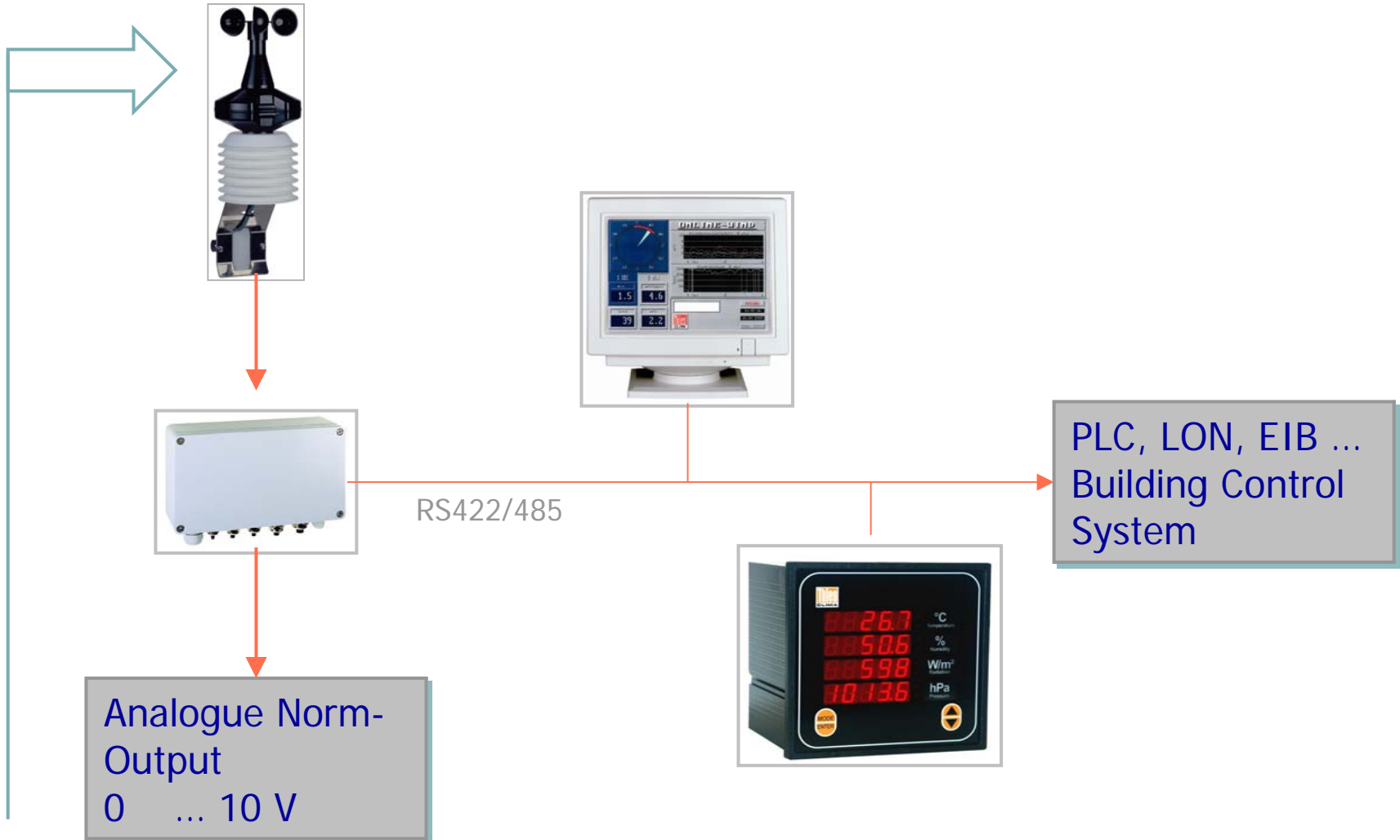


Meteo Comp

Wind Alarm System

Wind Measure and Display Compact

# Single Solutions (2)



# Applications



- Building Control
- Greenhouse
- Jalousie- u. Sun Shutter
  
- Environmental Protection
- Industrial Applications
  
- Power Plants
- Water Management
  
- Civil Protection Organisations
- Sport and Leisure Facilities

# Weather and Environmental monitoring Technology needs a competent partner

**THIES CLIMA - Worldwide**



Adolf Thies GmbH & Co KG  
Meteorology-Environmental Technology  
37025 Göttingen – Germany  
Phone: +49 551 79001-0  
Fax: +49 551 79001-65  
info@thiesclima.com  
www.thiesclima.com