

# WEATHER SENSORS / WETTERSENSOREN



Rain gauge / Regenmesser	Standard	Professional
Resolution / Auflösung	0.2mm	0.1mm/0.2mm
Orifice / Auffangfläche	200cm <sup>2</sup>	200cm <sup>2</sup>
Accuracy / Genauigkeit	± 1%	± 1%
Capacity / Kapazität per min	2.4mm	8mm/16mm
Heating / Heizung	-	optional
Connector / Stecker	Binder 7-pin M9 IP67	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	pulse / 0.2mm	pulse per unit



Combisensor temp. / RH	Standard	Professional
<b>Air temperature / Lufttemperatur</b>	-39.8°C – +60°C	-39.2°C – +60°C
Accuracy / Genauigkeit	± 0.6° @ 20°C	± 0.2° @ 20°C
Sensor type / Sensortyp	Pt 1000 IEC751 Class B	Pt 1000 IEC751

<b>Relative humidity / Relative Feuchte</b>	0 – 98% RH	0.8 – 100% RH
Accuracy / Genauigkeit @ 0-90% RH	± 3% RH	± 2% RH
Accuracy / Genauigkeit @ 90% – max. RH	± 5% RH	± 3% RH
Stability / Langzeitstabilität	± 2% RH over 2 years	< 1% RH p.a.
Connector / Stecker	Binder 7-pin M9 IP67	open
Output Signal / Ausgangssignal	2 x 0 – 2.5V	2 x 0 – 1V



Pyranometer	SP-Lite	CMP 3
Sensing element / Meßzelle	Silicium	Thermopile
Sensitivity / Empfindlichkeit	100µV/Wm <sup>2</sup>	5 – 15µV/Wm <sup>2</sup>
Spectral range / Spektralbereich	400 – 1.100nm	310 – 2.800nm
Max. irradiance / Meßbereich	2.000W/m <sup>2</sup>	2.000W/m <sup>2</sup>
Temp. dep. of sensitivity / Temp.abhängigkeit	± 0,15%/°C	< 5% (-40°C – +40°C)
Operating temp. / Temperaturbereich	-30°C – +70°C	-40°C – +80°C
Non-stability p.a./ Max. drift p.a.	n.a.	< 1%
Non-linearity (0 – 1000 W/m <sup>2</sup> ) / Linearitätsfehler (0 – 1000W/m <sup>2</sup> )	n.a.	< 2,5%
Tilt response @ 1.000 W/m <sup>2</sup>	n.a.	< 2%
Connector / Stecker	Binder 7-pin. M9 IP67	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	0 – 2.5V (linear ! no config. needed!)	



Leaf wetness / Blattnässe	
Measuring range / Meßbereich	0 – 9 units
Measuring principle / Meßprinzip	electrical conductivity
Operating temp. / Temperaturbereich	0°C – +60°C
Connector / Stecker	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	0 – 2,5V



Wind combi	Standard	Professional
<b>Wind speed / Windgeschwindigkeit</b>	0.6 – 55.6m/s	0.5 – 55.55m/s
Linearity / Linearität	± 0.3m/s & ± 2% rdg @ 20°C	± 2%
Onset speed / Anlaufgeschwindigkeit	0.6m/s (2.2km/h)	0.5m/s
Operating temp. / Temperaturbereich	-30°C – 65°C	-30°C – +70°C

<b>Wind direction / Windrichtung</b>	0° – 360°	0° – 360°
Measuring unit / Meßgerät	Potentiometer	Potentiometer
Linearity / Linearität	± 1%	± 2%
Dead angle / Totwinkel	3° ± 1°	5°
Switch over point / Umschaltpunkt	North	North
Onset speed / Anlaufgeschwindigkeit	0.6m/s (2.2km/h)	0.5m/s
Connector / Stecker	Binder 7-pin M9 IP67	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	2 x 0 – 2,5V	2 x 0 – 2,5V

Barometric pressure / Luftdruck	BP1
Measuring range / Meßbereich	500 – 1.500mb
Accuracy / Genauigkeit	0.1% FS
Operating temp. / Temperaturbereich	-20°C – +80°C
Protection / Schutzklasse	IP 67
Connector / Stecker	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	0,1 – 2,5V



Combisensor WXT510	
<b>Wind speed / Windgeschwindigkeit</b>	0 – 60m/s
Accuracy / Genauigkeit	± 0.3m/s or ± 2% whichever is greater
<b>Wind direction / Windrichtung</b>	0° – 360°
Accuracy / Genauigkeit	± 2°
<b>Rainfall / Regen</b>	0,01mm
Accuracy / Genauigkeit	± 5%
Hail / Hagel	0,1hits/cm <sup>2</sup>
<b>Air temperature / Lufttemperatur</b>	-52°C – +60°C
Accuracy / Genauigkeit @ 20°C	± 0.3°C
<b>Relative humidity / Relative Feuchte</b>	0 – 100% RH
Accuracy / Genauigkeit	0 – 90%: ± 3%
Accuracy / Genauigkeit	90 – 100%: ± 5%
<b>Barometric pressure / Luftdruck</b>	600 – 1.100hPa
Accuracy / Genauigkeit	± 0.5hPa @ 0°C – +30°C (± 1% total)
Output Signal / Ausgangssignal	SDI-12

