

**ACCURATE  
REMOTE  
SENSOR  
TECHNOLOGY**

**PRÄZISE  
SENSOR-  
TECHNIK**



**SMART WIRELESS SOLUTIONS**

**Whatever parameters  
you need to monitor!**

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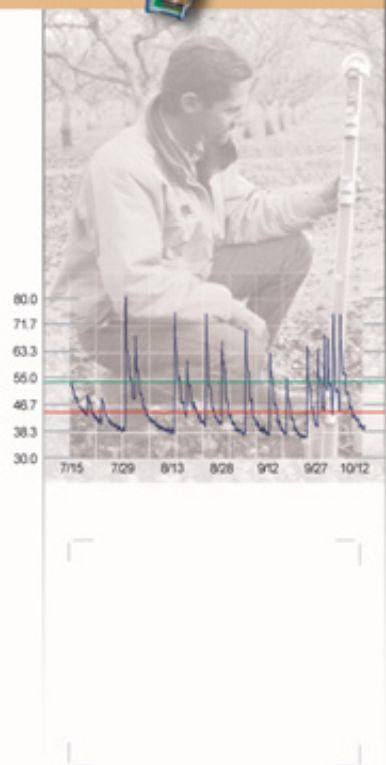
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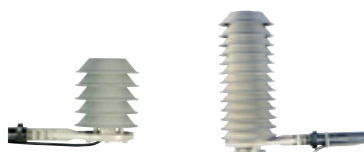
**ADCON**  
**TELEMETRY**



# 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



# SOIL SENSORS / BODENSENSOREN



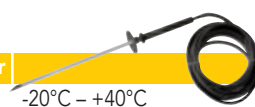
Soil moisture / Bodenfeuchte	Aquaflex	Watermark
Measuring principle / Meßprinzip	TDT	Electr. Resistance
Measuring range / Meßbereich	0 – 60% Vol.	0 – 200cBar
Accuracy / Genauigkeit	± 0,5% Vol.	± 5%
Operating temperature / Arbeitstemperatur	-10°C – +50°C	n.a.
Length / Länge	3m	n.a.
Connector / Stecker	Binder 7-pin M9 IP67	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	0 – 2,5 V	3 x 0 – 2,5V



Soil moisture / Bodenfeuchte	EasyAG	EasyAG TriScan
Measuring principle / Meßprinzip	HF capacitance	HF capacitance
Measuring range / Meßbereich	0 – 100% Vol.	0 – 100% Vol.
Salinity / Salzgehalt	n.a.	0 – 17dS/m
Accuracy / Genauigkeit	± 0,06% Vol.	± 8% (Salinity)
Operating temperature / Temperaturbereich	-20°C – +75°C	-20°C – +75°C
Length / Länge	30/40/50 cm	30/50 cm
Sensors / Sensoren	3/ 3/ 5	3/ 5
Sensor depth / Meßtiefe 30cm	10/20/30 cm	10/20/30 cm
Sensor depth / Meßtiefe 50cm	10/20/30/40/50 cm	10/20/30/40/50 cm
Connector / Stecker	Volt: Binder 7-pin	SDI-12: open
Output Signal / Ausgangssignal	0-2,5V or SDI-12	SDI-12



Soil moisture / Bodenfeuchte	Stevens Hydra Probe	Decagon Echo 2
Measuring range / Meßbereich	0 – 100% Vol.	0 – 100% Vol.
Conductivity / Leitfähigkeit	0 – 20dS/m	n.a.
Temperature / Temperatur	-10°C – +65°C	n.a.
Operating temperature / Temperaturbereich	-10°C – +65°C	0°C – +50°C
Dimensions / Abmessungen	12,4 x 4,2cm	15/25 x 3,2cm
Connector / Stecker	open	Binder 7-pin M9
Output Signal / Ausgangssignal	SDI-12	0 – 2,5V



Soil temperature / Bodentemperatur	
Measuring range / Meßbereich	-20°C – +40°C
Sensor element	Pt100 Class B
Measuring depth / Meßtiefe	- 30cm
Accuracy / Genauigkeit	± 0.3°C @ 0°C
Protection type / Schutzklasse	IP67
Length / Länge	45cm
Connector / Stecker	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	0 – 2,5V

# WATER SENSORS / WASSERSENSOREN



Water level / Wasserstand	LEV1	WELL	PA1	PA36
Water pressure / Wasserdruck				
Measuring range / Meßbereich	0 – 5/10/30m	0 – 10/30/100m	0-10/30 bar absolute	0 – 5/10/30bar absolute
Measuring principle / Meßprinzip	Piezoresistive temp. compensated	Piezoresistive temp. compensated	Piezoresistive temp. compensated	Piezoresistive temp. compensated
Barometric compens. / Luftdruckkompens.	ja	ja	—	—
Max. cable length / max. Kabellänge	50m	900m	30m	30m
Temperature range / Temperaturbereich	-40°C – +80°C	-40°C – +80°C	-40°C – +80°C	-40°C – +80°C
Dimensions / Abmessungen	22 x 95mm	35 x 121mm	22 x 49mm	22 x 121mm
Accuracy / Genauigkeit	0.1% FS @ 0°C – +40°C	0.1% FS @ 0°C – +40°C	typ. 1% FS @ 0°C – +30°C	0.1% FS @ 0°C – +40°C
Mounting / Gewindeaufnahme	—	—	1/4" plus various adapters	1/4" plus various adapters
Connector / Stecker	Binder 7-pin M9 IP67	Binder 7-pin M9 IP67	M12 4-pin m.	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	0,1V - 2,5V	0 - 2,5V	0,1 - 2,5V	0 – 2,5V

# COMPATIBLE SENSORS / KOMPATIBLE SENSOREN

Most 3rd party sensors are compatible if the following conditions are met:  
Der Anschluß anderer Sensoren erfordert:

Output signal / Ausgangssignal	0 – 2.5V or SDI-12 (except A740)
Supply voltage / Versorgungsspannung	5.5 – 7.2VDC (except A740)
Current consumption / Stromverbrauch	< 50mA (A723) resp. < 100mA (A733)
Time to signal / Einschwingzeit	max. 2 seconds
Cable / Kabel	shielded / geschirmt

Soil moisture / Bodenfeuchte	Profile probe	SM200
Measuring principle / Meßprinzip	Conductivity	Conductivity
Measuring range / Meßbereich	0 – 60% Vol.	0 – 60% Vol.
Accuracy / Genauigkeit	± 4% Vol.	± 3% Vol.
Operating temperature / Arbeitstemperatur	-20°C – +60°C	-20°C – +60°C



Water level / Wasserstand	Thalimedes	PS1
Measuring range / Meßbereich	20/200m	0 – max. 100m
Measuring principle / Meßprinzip	Shaft encoder	Piezoresistive temperature compensated
Resolution / Auflösung	0,001m/0,01m	0,005% FS
Interface	SDI-12	SDI-12



Water level / Wasserstand	RLS
Measuring range / Meßbereich	28,5m
Measuring principle / Meßprinzip	Radar
Interface	SDI-12



Water quality / Wasserqualität	AquaTroll 100	AquaTroll 200	Troll 9500
Measuring parameters / Meßgrößen	EC, Temp	EC, Temp, Lev	Lev, Temp, EC, pH DO, ORP, Turb.
Power Supply / Stromversorgung	internal	internal	internal
Interface	SDI-12	SDI-12	SDI-12



Water quality / Wasserqualität	6920V2 6600V2 600 OMS
Measuring parameters / Meßgrößen (depending on model / produktabhängig)	EC, DO, pH, Level, Turbidity, Chlorophyll, Rhodamine, Nitrate, Chloride, Ammonia
Power Supply / Stromversorgung	internal
Interface	SDI-12



Water quality / Wasserqualität	DS5 DS5X MS5
Measuring parameters / Meßgrößen	LDO, EC, pH, Turbidity, Level, Temperature
Power Supply / Stromversorgung	internal
Interface	SDI-12

