

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
Supply voltage / Versorgungsspannung	3.5 ... 7.2VDC
Current consumption / Stromverbrauch	< 50mA (A723) resp. < 100mA (A753)
Time to signal / Einschwingzeit	max. 2 seconds
Cable / Kabel	shielded / geschirmt

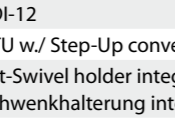
Soil moisture / Bodenfeuchte	Profile probe	SM200
Measuring principle / Meßprinzip	Conductivity	Conductivity
Measuring range / Meßbereich	0 ... 60% Vol.	0 ... 60% Vol.
Accuracy / Genauigkeit	± 4% Vol.	± 3% Vol.
Operating temperature / Arbeitstemperatur	-20°C ... +60°C	-20°C ... +60°C



Water level / Wasserstand	Thalimedes	PLS1
Measuring range / Meßbereich	20/200m	0 ... max. 100m
Measuring principle / Meßprinzip	Shaft encoder	Piezo-resistive, temp. compensated
Resolution / Auflösung	0,001m/0,01m	0,005% FS
Interface	SDI-12	SDI-12



Water level / Wasserstand	RLS
Measuring range / Meßbereich	0,7 ... 28,5 m / 2.5" ... 95"
Measuring principle / Meßprinzip	Radar
Interface	SDI-12
Power Supply / Stromversorgung	RTU w./ Step-Up converter
Mounting / Montage	Tilt-Swivel holder integrated / Schwenkhalterung integriert



Rain Gauge / Regenmesser	OTT Pluvio ²
Measuring principle / Meßmethode	Scale / Waage
Orifice / Auffangfläche	200 and 400cm ²
Accuracy / Genauigkeit	0,1mm
Capacity / Kapazität	0,1 ... 1.800mm/h
Bucket Capacity / Fassungsvermögen	200cm ² : 1.500mm 400cm ² : 750mm
Rim heating / Einlaßheizung	optional (requires mains power) / optional, nur mit Stromversorgg.
Output Signal / Ausgangssignal	Pulse, SDI-12 / Impulse, SDI-12
Power Supply / Stromversorgung	via RTU / aus Akku der RTU



Water quality / Wasserqualität	DS5	DS5X	M55
Measuring parameters / Meßgrößen	DO, EC, pH, Turbidity, Level, Temperature, Nitrates, Ammonia, and many others		
Power Supply / Stromversorgung	internal		
Interface	SDI-12		



Accurate remote sensor technology Präzise Sensortechnik

Whatever parameters you need to monitor!

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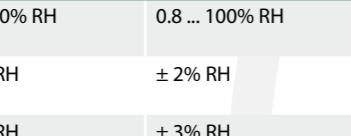
Weather sensors / Wettersensoren




Rain gauge / Regenmesser	Adcon RG1	Professional
Resolution / Auflösung	0.1mm /0.2mm	0.1mm/0.2mm
Orifice / Auffangfläche	200cm²/400cm²	200cm²
Accuracy / Genauigkeit	± 1%	± 1%
Capacity / Kapazität per min	1.2mm/2.4mm	8mm/16mm
Heating / Heizung	-	optional
Connector / Stecker	Binder 7-pin M9 IP67	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	pulse per unit	pulse per unit




Combisensor temp. / RH	Standard	Professional
Air temperature / Lufttemperatur	-40°C ... +60°C	-39.2°C ... +60°C
Accuracy / Genauigkeit	± 0.2° @ 20°C	± 0.2° @ 20°C
Sensor type / Sensortyp	Pt 1000 DIN A	Pt 1000 IEC751




Relative humidity / Relative Feuchte	Standard	Professional
Accuracy / Genauigkeit @ 0-90% RH	± 2% RH	± 2% RH
Accuracy / Genauigkeit @ 90% - max. RH	± 3% 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



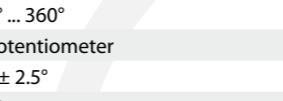
Pyranometer	SP-Lite	CMP 3
Sensing element / Meßzelle	Silicium	Thermopile
Sensitivity / Empfindlichkeit	100µV/Wm²	5 ... 15µV/Wm²
Spectral range / Spektralbereich	400 ... 1.100nm	310 ... 2.800nm
Max. irradiance / Meßbereich	2.000W/m²	2.000W/m²
Temp. dep. of sensitivity / Temp.abhängigkeit	± 0,15%/°C	< 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 / Linearitätsfehler (0 - 1000W/m²)	n.a.	< 2,5%
Tilt response @ 1.000 W/m²	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	Standard
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
Connector / Stecker	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	pulse / 0.2mm




Wind combi	Professional
Wind speed / Windgeschwindigkeit	0.4 ... 55.55m/s
Linearity / Linearität	<± 0.5m/s
Onset speed / Anlaufgeschwindigkeit	<0.4m/s
Operating temp. / Temperaturbereich	-40°C ... +70°C




Wind direction / Windrichtung	Professional
Measuring unit / Meßprinzip	Potentiometer
Linearity / Linearität	<± 2.5°
Dead angle / Totwinkel	5°
Switch over point / Umschaltpunkt	North
Onset speed / Anlaufgeschwindigkeit	0.4m/s



Mast Mounting Bracket / Masttraverse	Professional
Material	Aluminum, 80cm wide, w/clamps
Connector / Stecker	Binder 7-pin M9 IP67
Output Signal / Ausgangssignal	2 x 0 ... 2,5V




Barometric pressure / Luftdruck	BP1
Measuring range / Meßbereich	500 ... 1.500hPa
Linearity / Linearität	0.025% FS
Accuracy / Genauigkeit	0.1% FS (0°C ... +80°C)
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 WXT520	Professional
Wind speed / Windgeschwindigkeit	0 ... 60m/s
Accuracy / Genauigkeit	±0.3m/s or ±2% whichever is greater
Wind direction / Windrichtung	0° ... 360°
Accuracy / Genauigkeit	± 2°
Rainfall / Regen	0,01mm
Accuracy / Genauigkeit	± 5%
Hail / Hagel	0,1 hits/cm²
Air temperature / Lufttemperatur	-52°C ... +60°C
Accuracy / Genauigkeit @ 20°C	± 0.3°C
Relative humidity / Relative Feuchte	0 ... 100% RH
Accuracy / Genauigkeit	0 ... 90%: ± 3%
Accuracy / Genauigkeit	90 ... 100%: ± 5%
Barometric pressure / Luftdruck	600 ... 1.100hPa
Accuracy / Genauigkeit	± 0.5hPa @ 0°C ... +30°C (± 1% tot)
Output Signal / Ausgangssignal	SDI-12


Soil sensors / Bodensensoren



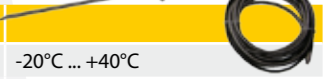
Soil moisture / Bodenfeuchte	Aquaflux	Watermark
Measuring principle / Meßprinzip	TDT	Electr. Resistance
Measuring range / Meßbereich	0 ... 60% Vol.	0 ... 200cBar
Accuracy / Genauigkeit	± 0,5% Vol.	± 5%
Operating temperature / Arbeitstemperatur	-10°C ... +50°C	n.a.
Length / Länge	3m	n.a.
Connector / Stecker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



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 moisture / Bodenfeuchte	SM-1	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	± 2% Vol.	± 8% (Salinity)
Operating temperature / Temperaturbereich	-20°C ... +75°C	-20°C ... +75°C
Length / Länge	30/60/90/120/150cm	50cm
Number of sensors / Sensoren	1 every 10cm	1 every 10cm
Temperature / Temperatur	yes; up to 5	n.a.
Connector / Stecker	Binder 7-pin	Binder 7-pin
Output Signal / Ausgangssignal	SDI-12	SDI-12



Soil temperature / Bodentemperatur	Professional
Measuring range / Meßbereich	-20°C ... +40°C
Sensor element	Pt100 Class B
Measuring depth / Meßtiefe	-30cm
Accuracy / Genauigkeit	± 0.3°C @ 0°C
Output Signal / Ausgangssignal	0 ... 2.5V
Protection type / Schutzklasse	IP67
Length / Länge	45cm
Connector / Stecker	Binder 7-pin M9 IP67
Cable Length / Kabellänge	5m
Cable Protection / Kabelschutz	2m stainless steel / 2m Stahl-schutzschlauch

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	Piezo-resistive temp. compensated	Piezo-resistive temp. compensated	Piezo-resistive temp. compensated	Piezo-resistive temp. compensated
Barometric compens. / Luftdruckkompens.	yes / ja	yes / 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	0,1 ... 2,5V