



PRECIPITATION MEASUREMENT WHEN EVERY DROP COUNTS

- ✔ **Water, snow or ice...we measure it all**
Various principles, fit for the best purposes
- ✔ **High accuracy, low maintenance**
Fast and accurate, high resolution, built to last
- ✔ **Suitable for remote applications**
For low power applications anywhere in the world
- ✔ **WMO compliant**
Developed and designed according to WMO guidelines



	TECHNICAL SPECIFICATIONS	HD2016	HD2015	HD2013	HD2013.2
Measure	Type	Rain Gauge	Rain Gauge	Rain Gauge	Rain Detector
	Principle	Weighing	Tipping Bucket	Tipping Bucket	Capacitive
	Solid	✓ (option R)	✓ (option R)	✓ (option R)	✓
	Mixed	✓ (option R)	✓ (option R)	✓ (option R)	✓
	Liquid	✓	✓	✓	✓
	Resolution	0.001 mm/1mg	0.1-0.2 or 0.5 mm/tip	0.1-0.2 or 0.5 mm/tip	
	Accuracy	± 0.2 mm	± 2 % (using correction curves)	± 2 % (using correction curves)	
	Collector Area	400 cm ²	200 cm ²	400 cm ²	
	Maximum Rainfall Rate	1000 mm/h	600 mm/h (0.2 res. version) 1000 mm/h (0.5 res. version)	600 mm/h (0.2 res. version) 1000 mm/h (0.5 res. version)	
Output	Contact output	Voltage Free	Voltage Free	Voltage Free	Open Collector
	Analog output			Optional 4...20 mA (I _{out}) or 0...10 V (V _{out})	0...1 V
	SDI-12	✓		optional	
	RS485-MODBUS	✓			
Power	Supply voltage	10...15 Vdc meas. 12 Vdc heating	12 / 24 Vdc only for heating	12 / 24 Vdc for heating 7...30 Vdc for I _{out} SDI-12 13...30 Vdc for V _{out}	12 Vdc
	Consumption	90 W heating ≈20 mA measuring circuit (1,5 A peak)	50 W heating	165 W heating ≈26 mA for I _{out} ≈4 mA for V _{out} ≈100 μA for SDI-12	130 mA typ. 230 mA max.
Operating conditions	Operating Temperature	0...+70 °C -20...+70 °C heated version	0...+70 °C -20...+70 °C heated version	0...+70 °C -20...+70 °C heated version	-20...+60 °C
	Protection Degree	IP 64	IP 64	IP 64	IP 68
General Characteristics	Housing	Coated aluminium	Coated aluminium	Coated aluminium	ASA technopolymer UV resistant
	Bird spikes	optional	optional	optional	optional
	Filter	✓	✓	✓	✓
	Adjustable Feet	✓	✓	✓	
	Levelling Device	✓	✓	✓	
	Mounting Bracket				✓
	Data Logger	HD33 Meteo Data Logger Series HD35 Wireless Data Logger Series HD2013-DB Rain Indicator Data Logger HD32MT Meteo Data Logger Series			