







## ACCURATE **WIND** MEASUREMENTS A COMPLETE RANGE FOR **ANY APPLICATION**

-  **Flexible connectivity**  
Wide choice in analog and digital communication
-  **Low power application**  
Designed to work with solar energy
-  **Rugged and robust design**  
Resistant against salt, corrosion and extreme weather
-  **Low maintenance**  
All instruments are made to last

2-axis  
Low Speed2-axis Compact  
Multiparametric2-axis High  
Performance / Harsh  
Environments3-axis  
MultiparametricIndustrial  
Vane & Cup  
Anemometer

Technical Specifications	HD53LS	HD52.3D...	HD51.3D4R HD51.3D4R-AL	HD2003...	MW35/ MW36
Speed	✓	✓	✓	✓	✓
Direction	✓	✓	✓	✓	✓
Measuring range up to	50	60	85 / 80*	70	75
Accuracy	± 0,2 m/s o ± 2%, the greatest (0...35 m/s), ± 3% (> 35 m/s)	± 0,2 m/s or ± 2%, the greatest (0...35 m/s), ± 3% (> 35 m/s)	± 0.2 m/s or ± 2%, the greatest (0...60 m/s), ± 3% (> 60 m/s)	±1% of reading	< 0.5 m/s (from 0 to 50 m/s)
Average wind output	✓	✓	✓	✓	
Wind gust	only version with RS485 MODBUS-RTU output	✓	✓	✓	
Working temperature	-20°C...+55°C	-40°C...+70°C	-40°C...+70°C	-40°C...+60°C	-40°C...+60°C
Protection Degree	IP66	IP66	IP66	IP64	
Heating		✓	✓	✓	✓
MIL-STD810G Method 509.6 compliant			✓*		
Survival speed	90	90	90 / 100*	90	80
Power supply	10÷30 Vdc	10÷30 Vdc	12÷30 Vdc	12÷30 Vdc	10÷30 Vdc
2 Axes	✓	✓	✓		
3 Axes				✓	
Analog output	✓	✓	✓	✓	✓
NMEA output		✓	✓		✓
RS485 output		✓	✓	✓	✓
RS232 output		✓	✓	✓	✓
SDI-12 Output		✓			
RS422 Output		✓	✓	✓	✓
MODBUS output	✓	✓	✓	✓	
Pulse					✓
Analog inputs 0-1V				✓	
Analog outputs refresh rate	1Hz	1Hz	1-4Hz	1-20Hz	
Digital output rate		1Hz	1Hz	1-50Hz	
Internal compass		✓		✓	
Designed to work on solar power	✓	✓	✓	✓	✓
Additional environmental parameters		T/RH/Patm/Solar radiation/ Precipitation	Pressure	T/RH/Patm	

\* Specification refers to HD51.3D4R-AL version.

Some specifications are depending on optional features and may only apply to specific codes of the instrument



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In order to ensure the quality of our instruments, we are constantly re-evaluating our products. Improvements can imply changes in specification; we advise you to always check our website for the newest version of our documentation.