

VSM4 and VSM4plus – Data Sheet

Technical Specifications Sensor (in accordance with DIN 54145-1)

	VSM4	VSM4plus
Area of application	approx. +/- 120 μ T (thereof approx. 60 μ T Earth's field)	
Measuring range	+/- 20 μ T	+/- 300 μ T
Sensor base distance	500 mm (\varnothing 19.69 in)	
Reference point	83 mm (\varnothing 3.3 in) from end of probe tube and 3.25 mm (\varnothing 0.1 in) off center line	
Declination	+/- 2 nT	+/- 3 nT
Resolution	< 0.1 nT	
Noise	< 35 pT rms / $\sqrt{\text{Hz}}$	
Cutoff frequency (bandwidth)	20 Hz (DC – 20 Hz)	
Temperature drift	< 0.5 nT/K	< 1 nT/K
Linearity	< 0.1%	
Compensation range	+/- 7.5 μ T	+/- 75 μ T
Output signal	digital	
Operating voltage	6V to 7.8V	
Power consumption	ca. 100 mA	
Operating temperature	-38 to 71 °C	
Storage temperature	-51 to 71 °C	
Dimensions	32 mm DM (\varnothing 1.3 in) (diameter) x 705 mm (\varnothing 27.8 in) (length)	
Weight*	0.55 kg (1.2 lbs)	
*Tolerance \pm 10 %		
Degree of protection	IP68 60 m	

Subject to changes that serve technical progress.

