

10 Technical Data

10.1 General Specifications

Dimensions	Overall height (without connector and mounting kit): 106.2 mm / 4.17" Diameter: 115.5 mm / 4.55"
Weight	< 500 g / 1.1 lbs
Degree of protection	IP67 according to EN 60529
Timing accuracy	+/- 100 ns to reference time (TAI/UTC)
Supported timing protocols	PTP Power Profile according to IEEE 1588-2008 and IEEE C37.238-2011 ¹ .
Ethernet port	Waterproof Ethernet connector according to IEC 61076-3-106 (variant 4), 10Base-T/100 Base-TX
Power supply	Power over Ethernet (PoE), class 1 powered device according to IEEE 802.3af
Power consumption	< 2 W
GPS performance	12 channel GPS receiver Frequency: 1575.42 MHz, L1 band

1) The Power Profile according to IEEE C37.238-2011 requires an IEEE 802.1Q VLAN tag. In order to avoid compatibility issues with different network equipment (e.g. switches) the *CMGPS 588* omits this VLAN tag and is therefore not fully compliant to the standard in this aspect.

10.2 Environmental Conditions

Temperature range	Operation: -40 °C to +70 °C (-40 °F to +158 °F). Storage: -40 °C to +85 °C (-40 °F to +185 °F).
Weathering resistance	For outdoor use (IP67).
Climate	IEC 60068-2-30, Test Db, damp heat, cyclic (6 cycles, 55 °C).
Vibration	IEC 60068-2-6, Test Fc, sinusoidal vibration, 6 mm at 5 - 9 Hz, 2 g at 9 - 200 Hz.
Shock	IEC 60068-2-27, Test Ea, 15 g/11 ms half sine.

10.3 CE Conformity, Electromagnetic Compatibility (EMC), Certificates

CE conformity	The product adheres to the specifications of the guidelines of the council of the European Community for meeting the requirements of the member states regarding the electromagnetic compatibility (EMC) Directive 2004/108/EC.	
EMC emission	EN 55022:2010 class B, EN 61326-1:2013	
EMC immunity	EN 55024:2010, EN 61326-1:2013, EN 62305-4:2010	
Safety	IEC 60950-1:2005 2 Ed. +A1:2009, IEC 60950-22:2005	
Certificates	Manufactured under an ISO 9001 registered system.	