CMGPS 588

Technical Data

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OMICRON

1 Technical Data

1.1 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
Satellite receiver	**Hardware revision 3** (see type plate) 32 channels GPS frequency: 1575.42 MHz, L1 band GLONASS frequency: 1602.00 Mhz, L1 band
	Previous *CMGPS 588* 12 channel GPS receiver GPS frequency: 1575.42 MHz, L1 band

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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.

1.2   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.

1.3 Standards and Certificates

Conformity	Radio Equipment Directive (RED)
EMC emission	EN 55022, EN 61326-1
EMC immunity	EN 55024, EN 61326-1, EN 62305-4
Safety	IEC 62368-1, IEC 60950-22
Certificates	