OMICRON

CMGPS 588

Technical Data

CMGPS 588 Technical Data

© 2019 by OMICRON electronics GmbH. All rights reserved.

This technical data was extracted from the following manual: ENU 1020 05 02.

All rights including translation reserved. Reproduction of any kind, e.g., photocopying, microfilming, optical character recognition and/or storage in electronic data processing systems, requires the explicit consent of OMICRON electronics. Reprinting, wholly or in part, is not permitted.

The product information, specifications, and technical data embodied in this manual represent the technical status at the time of writing and are subject to change without prior notice.

OMICRON electronics translates this manual from the source language English into a number of other languages. Any translation of this manual is done for local requirements, and in the event of a dispute between the English and a non-English version, the English version of this manual shall govern.

Microsoft, Windows, and Internet Explorer are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Mozilla® and Firefox® are registered trademarks of the Mozilla Foundation. Google Chrome is a trademark of Google Inc., used with permission.

1 Technical Data

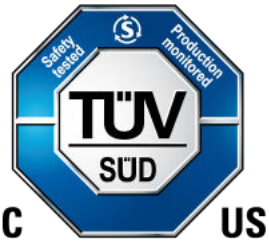
1.1 General Specifications

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

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