



Meinberg Radio Clocks

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GOAL: GPS Optical Antenna Link - Multi Mode

GPS Optical Antenna Link

The Meinberg GPS Optical Antenna Link provides a long-distance connection between a Meinberg GPS antenna and a Meinberg GPS receiver using a GI50/125 μ m or GI62.5/125 μ m multimode optical fiber.

The following satellite-based receiver types are suitable for use with a GOAL Antenna Link:

- * [1][GPS18x](#)
- * [2][GPS18xSV](#)
- * [3][GPS180PEX](#)
- * [4][GPS180AMC](#)
- * [5][GPS18x\(D/A/DA\)HS](#)
- * [6][GNS18x-UC](#)

and older receivers of the series GPS163, GPS164, GPS165, GPS167, GPS168, GPS169 and GPS170 (but not GPS166 !).

Key Features

- large antenna cable distances (up to 2000 mtrs. using a continuous FO cable)
- no destructive overvoltage via the antenna cable
- no unintentional monitoring possible via optical fiber

Description

The module GOAL/R is to connect to the receivers antenna input via a patch cable and can be assembled somewhere around. The module GOAL/A is to mount indoor, connected to the Meinberg antenna via a coaxial cable. Both modules are linked to each other via a single GI50/125

Characteristics

Type of Antenna	Input for Meinberg GPS antenna (not included), antenna circuit 1000 V DC insulated
Optical Outputs	ST connector for GI 50/125 μm or GI 62,5/125 μm gradient fibre, Wave length: 1300 nm / 850 nm, Launchable optical output power: typ. 15 μW (into GI 62,5/125 μm), Optical input level: min. 3 μW
Electrical Connectors	optical ST connector female type-N Power Supply (GOAL/A only)
Operating Voltage	GOAL/A: 100-240 V AC (50/60Hz) optional: 20-60 V DC power consumption: 5 W max.
Form Factor	GOAL/A: black eloxadized aluminium housing, with aluminium front and rear panel GOAL/R: aluminium HF housing protection class: IP30
Physical Dimensions	GOAL/A: 44 mm x 105 mm x 165 mm (height x width x depth) GOAL/R: 25 mm x 25 mm x 95 mm (height x width x depth)
Supported Temperature	-25 ... 65° C
Supported Humidity	Max. 85 % (non-condensing) at 40 °C
Warranty	Three-year warranty
RoHS Status of Product	This product is fully RoHS-compliant.
WEEE Status of Product	This product is handled as a B2B (Business to Business) category product. To ensure that the product is disposed of in a WEEE-compliant fashion, it can be returned to the manufacturer. Any transportation expenses for returning this product (at end-of-life) must be covered by the end user, while Meinberg will bear the costs for the waste disposal itself.

Manual

The English manual is available as a PDF file: [\[7\]Download \(PDF\)](#)

Links:

- [1] <https://www.meinbergglobal.com/english/products/>
- [2] <https://www.meinbergglobal.com/english/products/>
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