



## 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 $\mu$ m or GI62.5/125 $\mu$ 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

<b>Type of Antenna</b>	Input for Meinberg GPS antenna (not included), antenna circuit 1000 V DC insulated
<b>Optical Outputs</b>	ST connector for GI 50/125 $\mu\text{m}$ or GI 62,5/125 $\mu\text{m}$ gradient fibre, Wave length: 1300 nm / 850 nm, Launchable optical output power: typ. 15 $\mu\text{W}$ (into GI 62,5/125 $\mu\text{m}$ ), Optical input level: min. 3 $\mu\text{W}$
<b>Electrical Connectors</b>	optical ST connector female type-N Power Supply (GOAL/A only)
<b>Operating Voltage</b>	GOAL/A: 100-240 V AC (50/60Hz) optional: 20-60 V DC power consumption: 5 W max.
<b>Form Factor</b>	GOAL/A: black eloxadized aluminium housing, with aluminium front and rear panel GOAL/R: aluminium HF housing protection class: IP30
<b>Physical Dimensions</b>	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)
<b>Supported Temperature</b>	-25 ... 65° C
<b>Supported Humidity</b>	Max. 85 % (non-condensing) at 40 °C
<b>Warranty</b>	Three-year warranty
<b>RoHS Status of Product</b>	This product is fully RoHS-compliant.
<b>WEEE Status of Product</b>	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/>
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