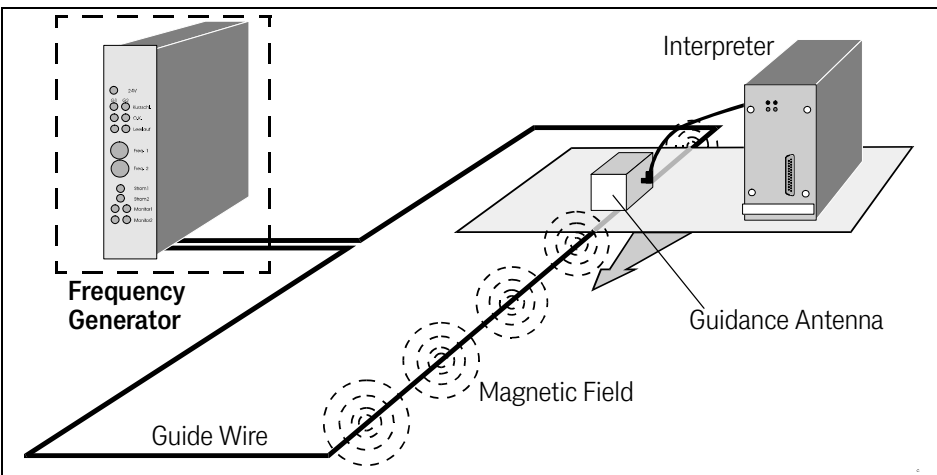


HG G-57400-E	HG G-57401-E
<ul style="list-style-type: none"> <li>- Closed Euro Cassette for 19" rack</li> <li>- Width 20 TE, height 3 HE</li> </ul>	<ul style="list-style-type: none"> <li>- Plug-in board for Euro cassette</li> <li>- Width 14 TE, height 3 HE</li> </ul>

**Operational Description**



Overview
<ul style="list-style-type: none"> <li>♦ Single Loop Frequency Generators for the track guidance of Automated Guided Vehicles (AGV)</li> <li>♦ Generate AC current with current up to <math>I = 600\text{mA}</math></li> <li>♦ For use with Guidance Antennas</li> <li>♦ 16 selectable frequencies</li> <li>♦ Quartz stabilized frequency, accuracy better than 0.02 %</li> <li>♦ Closed Euro cassette, for 19" rack (HG G-57400) or plug-in board for Euro cassette (HG G-57401)</li> </ul>

The following applies to both frequency generators.

A frequency generator generates an AC current in a conductive loop for track guiding Automated Guided Vehicles (AGV).

The board hosts one generator with power amplifiers and a transformer for DC decoupling. Frequencies may be selected by using a 16 position HEX switch on the front.

The generator is set to give a constant output level. Short circuits or load impedances too low as well as loop interruptions or load impedances too high are indicated by LEDs on the front panel and by a fault signal output on the socket.

The generator provides separate connectors for connecting a short loop or a long loop. The maximum load impedance differs between short and long loop by a ratio of approximately 1:2. The loop current can be adjusted by a trimpot on the front panel.

Connector DIN 41612, C64 pin, AC	
Pin	Description
1a, 1c, 2a, 2c	+24 V (Power)
15a, 15c, 16a, 16c	Long Loop – Closure
20a, 20c, 21a, 21c	Short Loop – Closure
25a, 25c, 26a, 26c	Loop – Start
31a, 31c, 32a, 32c	GND
29a, 29c	Fault Signaling Output to be used with alarm relay HG G-05750 or 19" rack HG G-93150 only

Corresponding Products	
HW CON00049	Connector VG 64 AC
HG G-19330	Guidance Antenna Indoor
HG G-19534	Guidance Antenna Outdoor
HG G-05750	Alarm relay for fault signaling output (Pin 29) for up to 8 generators
HG G-93130	Wall casing for 2x HG G-57401 (including power supply)
HG G-93131	19" rack for 2x HG G-57401 (including power supply) fault signaling output via optional alarm relay HG G-05750 (see above)
HG G-93150	19" rack for 3x HG G-57400 (including power supply and fault signaling output)
HW POW00002	Power 19"/24 VDC/ 5A

Examples for Guide Wire Material
<ul style="list-style-type: none"> <li>Belden 9438 - direct burial cable - HDPE - AWG14 (2.5 mm<sup>2</sup>)</li> <li>Helukabel Helufon-FEP-6Y 2557x - 2.5 mm<sup>2</sup> - (Flourpolymer)</li> <li>Lappkabel Ölflex HEAT 205 SC 0086xxx - 2.5 mm<sup>2</sup> - FEP</li> </ul>

Götting Product IDs (order codes)
<p><b>HG G-57400YE</b></p> <ul style="list-style-type: none"> <li>Production series (no functional relevance)</li> <li>Functional Model / Version</li> <li>Identification Number / Type</li> <li>G: Device   K: Component   S: System   W: Software</li> <li>HG: Götting   HW: Resale</li> </ul>

Dimensions	Control	Meaning
	24V (LED)	Power
	O.K. (LED)	Load Impedance o.k.
	Z < Zmin (LED)	Short circuit or load impedance too low
	Z > Zmax (LED)	Break of wire or load impedance too high
	Frequenz (Hex switch)	Frequency Selection
	I (Trim Poti)	Loop current adjustment

Frequency [Hz] per model (HG G-57400xE / HG G-57401xE)							
HEX	Model			HEX	Model		
	X	Y	Z		X	Y	Z
0	5500	1500	5000	8	6000	16000	7000
1	7000	2000	5100	9	6500	7500	7500
2	8400	2660	5150	A	7500	7800	7800
3	10100	3520	5200	B	8000	8000	8000
4	12200	4710	5700	C	8500	8500	8500
5	15200	6250	6000	D	9000	9000	9000
6	18100	4000	6300	E	9500	9500	9500
7	5100	8000	6500	F	10000	10000	10000

The standard frequencies shown in the table are preset in the system. It is possible to switch between these frequencies via a HEX-switch on the front plate of the generator. Further frequencies in the range from 4 to 18 kHz (resolution 1 Hz) available on request.

Technical Data	
Dimensions	HG G-57400: Euro cassette, 20TE, 3HE HG G-57401: Plug-in board for euro cassette, 14TE, 3HE
Weight	HG G-57400: 1.050 kg HG G-57401: 0.650 kg
Temperature ranges	Operation: 0° C to +50° C / Storage: -20° C to +70° C
Supply voltage	+ 24 V ±25 %
Output frequency	depending on model and HEX switch position, see table above
Frequency accuracy	better than 0.02 %, quartz stabilized
Current output	- I <sub>max</sub> = 600 mA on long loop - I <sub>max</sub> = 600 mA on short loop
Load impedance	- 2 to 70 Ω on long loop - 2 to 33 Ω on short loop
Current consumption @ Ub = +24 V	Standby current - Long loop: 0.28 A - Short loop: 0.19 A For 600 mA and max. load impedance - Long loop: 1.1 A - Short loop: 0.63 A
Connector	DIN 41612, C 64 pin, AC