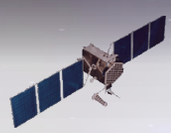
KG

MSG-2060

GNSS Signal Generator

BeiDou new release



Equipped with GPS,GLONASS, QZSS and IMES as standard, BeiDou is newly released as option.

General

MSG-2060 and MSG2060ATT are signal generators that generate pseudo signals of GNSS (Global Navigation Satellite System).
(Positioning measurement is not possible because it is for level measurement.)
Equipped with American GPS, Russian GLONASS, Japanese QZSS and IMES as standard. Optionally, a Chinese BeiDou can be installed.
Simultaneous output of two kinds of pseudo signals of GPS,GLONASS, QZSS, IMES, BeiDou is possible.

Features

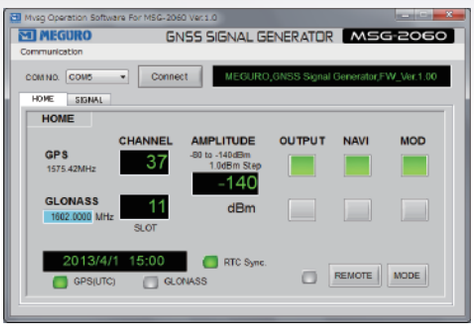
- Utilizing color touch panel for ease of operation and setting on the panel.
- Possible to number each satellite
- Output level setting(swift switching possible from -80 to -140dBm)
- Output of CW (Carrier waveform)
- Setting of real time clock
- Operation and setting possible through USB using the PC application software

Trustworthy Brand
MEGURO

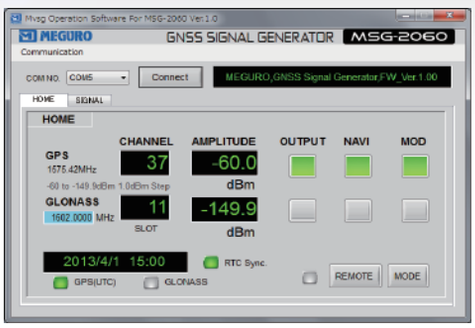
Application screen

Featuring the following functions

-Most demanded operations are combined in one screen
-Each signal can be set either ON or OFF
-Two output level can also be set independently (-90.0 to -149.9dBm)(Optional)
-The clock can be switched between GPS(UTC) and GLONASS
-Message type, latitude and longitude can be rewritten on IMES
-One simple click to switch five signals
-The display can be switched between Channel and Slot of the satellite number on GLONASS



↑Standard Main screen

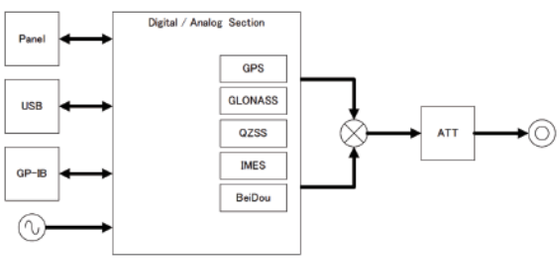


↑Option Main screen

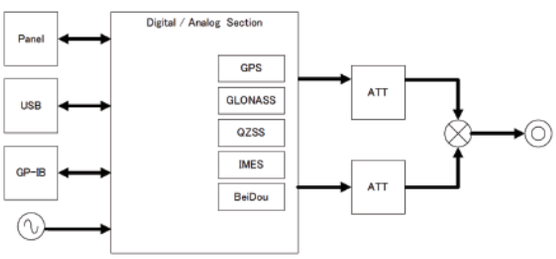
↑Signal selection screen

Block diagram

Standard Block Diagram



Option Block Diagram



Specifications

	Standard	ATT Option
Level range	-80 to -140dBm	-90.0 to -149.9dBm
Accuracy	+/- 1.0dB	+/- 1.0dB
Level step	1.0dB	0.1dB
Spurious output	-50dB or less for the secondary harmonics	-50dB or less for the secondary harmonics

Interface

Serial interface	USB TYPE B
Parallel interface	GP-IB

Power requirement

Voltage	DC 7.5V(AC adaptor: AC90 – 264V 50/60Hz)
Dimensions (Excluding projected portion)	210(W) x 88(H) x 300(D) mm
Weight	Approx.2.4kg (when in standard)
Operating temperature	0 to +40C
Operation guaranteed temperature	+10 to +35C
Battery back up	Setting and stored data
OS	Windows XP/Windows 7

	GLONASS	GPS	QZSS	IMES	BeiDou
Freq.	1.5980625GHz to 1.605375GHz（L1）	1.57542GHz		1.5754282GHz or 1.5754118GHz	1.561098GHz
Freq. accuracy	Less than 5×10^{-8}	Less than 5×10^{-8}			
Freq. step	562.5kHz	—			
PRN code	PR ranging code	37 C/A code	5 C/A code	10 C/A code	B1I Ranging code
	(511 bit series GOLD coding)	(1023 bit series GOLD coding)			—
Channel	F-ch 7 to 6	SV1 ～ SV37	SV193 ～ SV197	SV173 ～ SV182	1 ～ 37
Mod Freq.	511kHz clock	1.023MHz clock			2.046MHz clock
Data mod	PR ranging code synch divide,50bps BPSK	C/A code synch divide, 50bps, BPSK			QPSK
NAVI data	50bps test pattern			250bps/50bps	D1: 50bps D2: 500bps

*IMES bit rate of 250bps or 5-bps can be switched.

●Specifications are subject to change without notice for product improvement.

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