

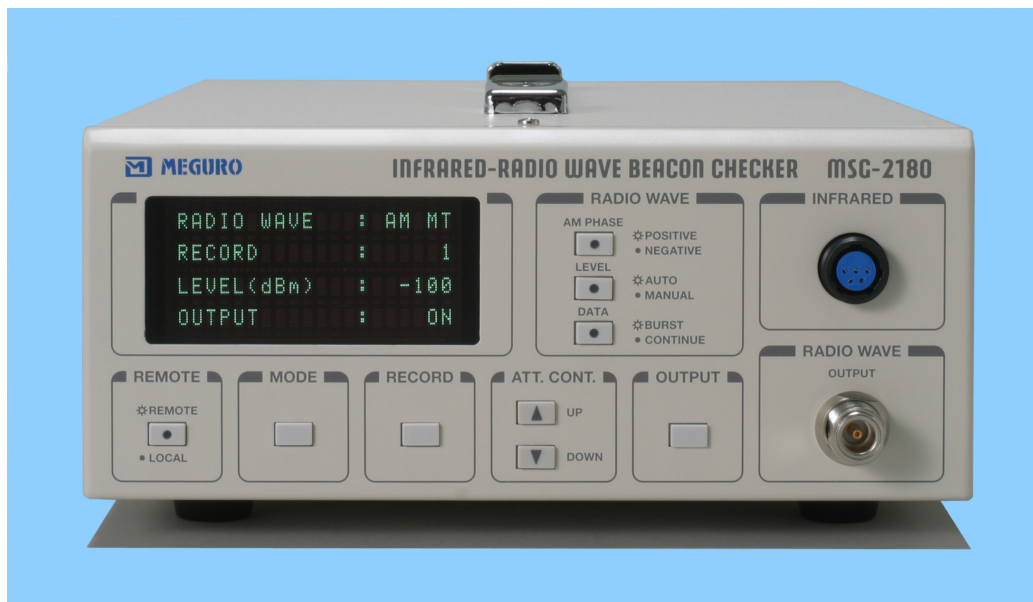
## BEACON CHECKER MODEL : MSG-2180

### 〈 Description 〉

The MSG-2180 is the Beacon Checker especially designed for generating the simulation signals of testing car-navigation systems and there are two types of the Beacon, one is Radio wave beacon on expressways, the other is Infrared beacon on major ordinary roads.

### 〈 Features 〉

1. In radio wave beacon, auto level control setting is available.  
In the setting, this unit automatically ups and downs radio wave beacon level to simulate a scene that a vehicle is coming near to and going away from a beacon.
2. In infraed beacon, the testing of down-link and up-link is possible fast, and datas of infrared beacon and radio wave beacon are fixed.
3. All operation can be controlled by RS-232C, and GP-IB & USB on option.
4. Since this unit is designed to be compact, light-weight and easy operation, it is suitable for using in production lines.



MODEL : MSG-2180

< Specifications >

**Infrared beacon**

- Carrier frequency : 2.4997GHz (Fixed)
- Output level : Frequency stability less than  $\pm 1$ ppm
- : -60 to -100dBm step 1dB
- : Level accuracy less than  $\pm 1$ dB
- : Output impedance 50  $\Omega$ , VSWR less than 1.5
- Data Modulation Method: GMSK 64kbps frequency deviation range  $\pm 16$ kHz
- Positioning and direction: AM modulation 1kHz (Square wave) $10 \pm 2\%$
- recognition signal (Synchronises to data clock 64kHz)
- : AM modulation signal phase inversion function
- Record : 1 to 3 (Fixed data)

**Optical beacon**

- Modulation Method : Pulse amplitude modulation
- Encoding form : Manchester code
- Communication rate : Down 1024kbps Up 64kbps
- Output level : Electric signal output TTL level

**General Data**

- Interface : Serial interface (Standard) RS232C D-sub 9pins (Male)
- Communication condition: 19200bps 8bits, none-parity, stop-1 (Fixed)
- Cable : Straight cable
- : GP-IB, USB (Option)
- Power requirements : AC90V to 240V 50/60Hz (Multi slot-in) 15VA
- Dimensions, overall : Approx. 240 (W)  $\times$  100 (H)  $\times$  350 (D) mm
- Weight : Approx. 3.8kg
- Operating temperature range: Less than +10°C to +40°C 80%H
- Guarantee temperature range: Less than +10°C to +35°C 80%H
- Storage temperature range: Less than 0°C to +50°C 90%H

※ Specifications are subject to change without notice.