

# Transient Limiter

GPL-5010

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## USER MANUAL

GW INSTEK PART NO.



ISO-9001 CERTIFIED MANUFACTURER

**GW INSTEK**

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# O VERVIEW

GWINSTEK GPL-5010 transient limiter is commonly used to test electromagnetic interference. For EMI testing, when accidentally overloaded, it can protect the terminal circuit and the valuable EMI test equipment. Meanwhile, together with our GLN-5040A Two Line V-Network, they constitute a complete EMI test system.



# P PACKAGE CONTENTS

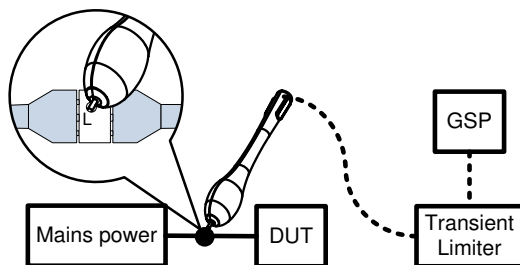
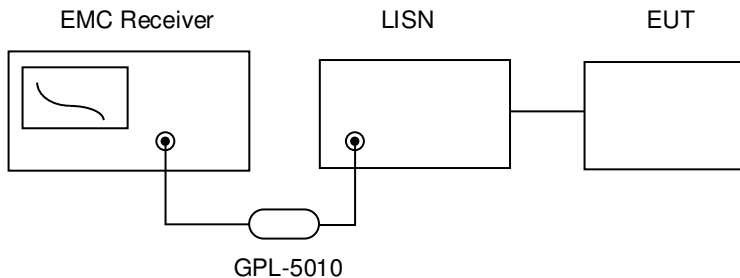
| Item                                      | Quantity |
|-------------------------------------------|----------|
| Limiter main unit                         | 1 Pcs    |
| User instruction manual and warranty card | 1 Book   |
| Test report                               | 1 Sheet  |

# AAPPLICATION

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- It can be used in Power supply (switch type and linear) design.
  - It can be used in Inverter/transformer design.
  - It can be used in LED illumination design.
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# S SCHEMATIC DIAGRAM



# A PPEARANCE

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Input Interface: BNC female

Output Interface: N male



# A PPENDIX

## GPL-5010 Specifications

|                                           |                                                                              |
|-------------------------------------------|------------------------------------------------------------------------------|
| Bandwidth                                 | 9kHz-200MHz                                                                  |
| Limit level                               | 50mW(+17dBm)                                                                 |
| System impedance                          | 50Ω                                                                          |
| Connectors                                | Input : BNC (female)                                                         |
|                                           | Output : N (male)                                                            |
| Maximum input level                       | Continuous: 2.5W(+34dBm)                                                     |
|                                           | Pulse: 10kW(10uS)                                                            |
|                                           | DC: ±12V                                                                     |
| Insertion loss                            | <2kHz >30dB                                                                  |
|                                           | 9kHz-50MHz 10dB±0.5dB                                                        |
|                                           | 50MHz-200MHz 10dB+2.2dB/<br>10dB-0.5dB                                       |
|                                           | <6kHz, >400MHz >13dB                                                         |
| Frequency response curve                  | Figure 1(25°C)                                                               |
| Amplitude limiting<br>specification curve | Figure 2(25°C)                                                               |
| Operating temperature                     | 0°C-55°C                                                                     |
| Storage temperature                       | -40°C-80°C                                                                   |
| Dimensions                                | 118mm(L)x44mm(W)x23mm(H)                                                     |
| Weight                                    | Approx. 92g                                                                  |
| Certification                             | CE(EN61010-1:2010<br>EN61326-1:2013<br>EN61000-3-2:2014<br>EN61000-3-3:2013) |

Figure 1  
Frequency  
Response Curve

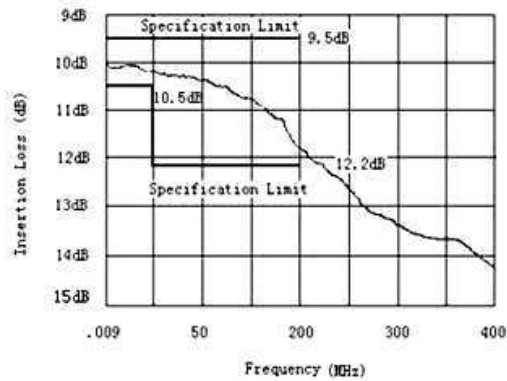


Figure 2  
Amplitude  
Limiting  
Specification  
Curve

