

High Speed Measuring of ratio error and phase displacement available.**Features :**

- **Two measuring modes of Lower speed (Hi = high resolution) and High speed (Lo= low resolution) are featured.**
(High speed measuring mode is optimum, when rapid response is emphasized)
- **Graphic type fluorescent tube module is adopted.**
(Sufficient visibility in dark environment, and Analog Meter display possible)
- **High accuracy**
- **Easy to operate**
- **Input of correction value of standard transformer possible**
- **Low price**

**Outline :**

This test set measures ratio error and phase displacement of transformers. High speed measuring, which has never realized, became possible by newly adopted method. So it is optimum for measuring at manufacturing site, where rapid response of measuring is required. By graphic type fluorescent tube module, sufficient visibility of display, even in a dark environment, is realized. Simultaneous display of voltage or current for ratio error, phase displacement, frequency and input of standard transformer, is feasible.

Specifications :

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|---|--|-------------------|---------|---------|-------------|-----|--------------------|-------|---------|-----------------------------|---------|--------|-----------|---------|-------------|--|--------------------|--|-----------|-----------------------|---------|---------------------|---------|---------------------|----|--|----|--------------|---|-------------|----------------------|--------------------|-------------------|-----------|----------------------|---------|--------------------------------------|---------|--------------------------------------|
| <ul style="list-style-type: none"> ■ Ratings <table border="0"> <tr> <td>Voltage</td> <td>75V / 150V / 300V</td> </tr> <tr> <td>Current</td> <td>1A / 5A</td> </tr> </table> ■ Measuring range <table border="0"> <tr> <td>Ratio error</td> <td>±5%</td> </tr> <tr> <td>Phase displacement</td> <td>±170'</td> </tr> </table> ■ Input range <table border="0"> <tr> <td>Voltage</td> <td>2~120%(300V range : 2~100%)</td> </tr> <tr> <td>Current</td> <td>2~120%</td> </tr> <tr> <td>Frequency</td> <td>45~66Hz</td> </tr> </table> ■ Accuracy <table border="0"> <tr> <td>Ratio error</td> <td>±0.01%(Hi)(2~ less than 5% : ±0.02%) * 1
±0.05%(Lo)</td> </tr> <tr> <td>Phase displacement</td> <td>±0.5' (Hi)(2~less than 5% : ±1') * 2
±1' (Lo)</td> </tr> <tr> <td>Frequency</td> <td>±0.1Hz(Hi)/±0.2Hz(Lo)</td> </tr> <tr> <td>Voltage</td> <td>±0.2%(Hi)/±0.5%(Lo)</td> </tr> <tr> <td>Current</td> <td>±0.2%(Hi)/±0.5%(Lo)</td> </tr> </table> ■ Measuring time <table border="0"> <tr> <td>Hi</td> <td>Approx. 1.5s (High Accuracy and high resolution)</td> </tr> <tr> <td>Lo</td> <td>Approx. 0.5s</td> </tr> </table> | Voltage | 75V / 150V / 300V | Current | 1A / 5A | Ratio error | ±5% | Phase displacement | ±170' | Voltage | 2~120%(300V range : 2~100%) | Current | 2~120% | Frequency | 45~66Hz | Ratio error | ±0.01%(Hi)(2~ less than 5% : ±0.02%) * 1
±0.05%(Lo) | Phase displacement | ±0.5' (Hi)(2~less than 5% : ±1') * 2
±1' (Lo) | Frequency | ±0.1Hz(Hi)/±0.2Hz(Lo) | Voltage | ±0.2%(Hi)/±0.5%(Lo) | Current | ±0.2%(Hi)/±0.5%(Lo) | Hi | Approx. 1.5s (High Accuracy and high resolution) | Lo | Approx. 0.5s | <ul style="list-style-type: none"> ■ Resolution <table border="0"> <tr> <td>Ratio error</td> <td>0.001%(Hi)/0.01%(Lo)</td> </tr> <tr> <td>Phase displacement</td> <td>0.1' (Hi)/1' (Lo)</td> </tr> <tr> <td>Frequency</td> <td>0.01Hz(Hi)/0.1Hz(Lo)</td> </tr> <tr> <td>Voltage</td> <td>0.01/0.01/0.1V(Hi)
0.1/0.1/1V(Lo)</td> </tr> <tr> <td>Current</td> <td>0.0001/0.001A(Hi)
0.001/0.01A(Lo)</td> </tr> </table> ■ Option <p>G P – I B Module(Model : GP-23B)
Conforming to IEEE Standard 488-1978
Remote control (Power ON/OFF not available)
and data communication are possible with this option module.</p> ■ Auxiliary power supply(LINE INPUT)
90~110VAC, 47~63Hz ■ Dimension
177 × 450 × 376mm
(H) (W) (D) ■ Weight
15kg (approx.) | Ratio error | 0.001%(Hi)/0.01%(Lo) | Phase displacement | 0.1' (Hi)/1' (Lo) | Frequency | 0.01Hz(Hi)/0.1Hz(Lo) | Voltage | 0.01/0.01/0.1V(Hi)
0.1/0.1/1V(Lo) | Current | 0.0001/0.001A(Hi)
0.001/0.01A(Lo) |
| Voltage | 75V / 150V / 300V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Current | 1A / 5A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ratio error | ±5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase displacement | ±170' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage | 2~120%(300V range : 2~100%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Current | 2~120% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency | 45~66Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ratio error | ±0.01%(Hi)(2~ less than 5% : ±0.02%) * 1
±0.05%(Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase displacement | ±0.5' (Hi)(2~less than 5% : ±1') * 2
±1' (Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency | ±0.1Hz(Hi)/±0.2Hz(Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage | ±0.2%(Hi)/±0.5%(Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Current | ±0.2%(Hi)/±0.5%(Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hi | Approx. 1.5s (High Accuracy and high resolution) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lo | Approx. 0.5s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ratio error | 0.001%(Hi)/0.01%(Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase displacement | 0.1' (Hi)/1' (Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency | 0.01Hz(Hi)/0.1Hz(Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage | 0.01/0.01/0.1V(Hi)
0.1/0.1/1V(Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Current | 0.0001/0.001A(Hi)
0.001/0.01A(Lo) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* 1 ±0.03% at more than 120' of phase displacement

* 2 ±0.8' at more than 2% of ratio error

Specifications may be changed without preliminary notice.



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