

No. W20240113343E-1  
Issue Date 2024-01-26  
< YYYY-MM-DD >

## CALIBRATION CERTIFICATE

Model Name : POWER ANALYZER  
Model Number : PW3390-02  
Serial No : 240122257  
Calibration Date : 2024-01-24

The above listed product(s) is/are calibrated in accordance with the HIOKI standards. This also certifies that all reference instruments used in the calibration process can be traced back to all or some of the official standards laboratories of the nations affiliated with the International Committee for Weights and Measures (CIPM), such as the National Institute of Advanced Industrial Science and Technology, the National Institute of Information and Communications Technology, and NIST (National Institute of Standards and Technology).

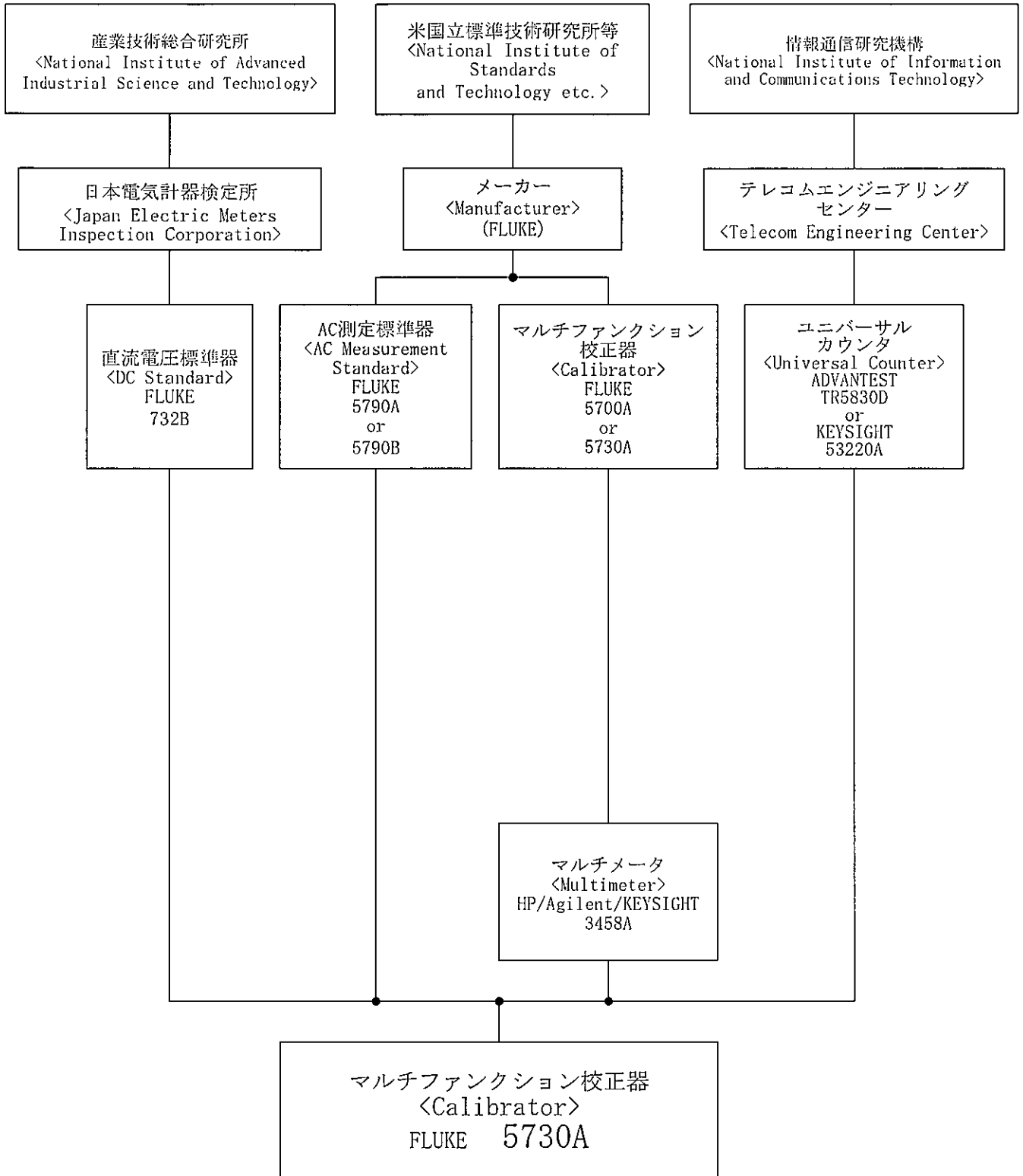
### Calibration Equipment Used

| <u>Model Name</u> | <u>Model Number</u> | <u>Serial No.</u> | <u>Control No.</u> | <u>Cal. Period</u> |
|-------------------|---------------------|-------------------|--------------------|--------------------|
| CALIBRATOR        | 5730A               | 2770501           | 000-10-167         | 2024-04-30         |
| CALIBRATOR        | 5502A               | 5961801           | 216096             | 2024-11-30         |
| POWER ANALYZER    | 3390M               | 081199626         | 000-14-053         | 2024-08-31         |
| MULTIMETER        | 3458A               | MY45053204        | 000-20-377         | 2024-11-30         |



Tsutomu Yamaguchi  
Inspector Quality Assurance Department

## 使用標準器トレーサビリティ体系図 <Traceability Chart for Calibration Equipment>

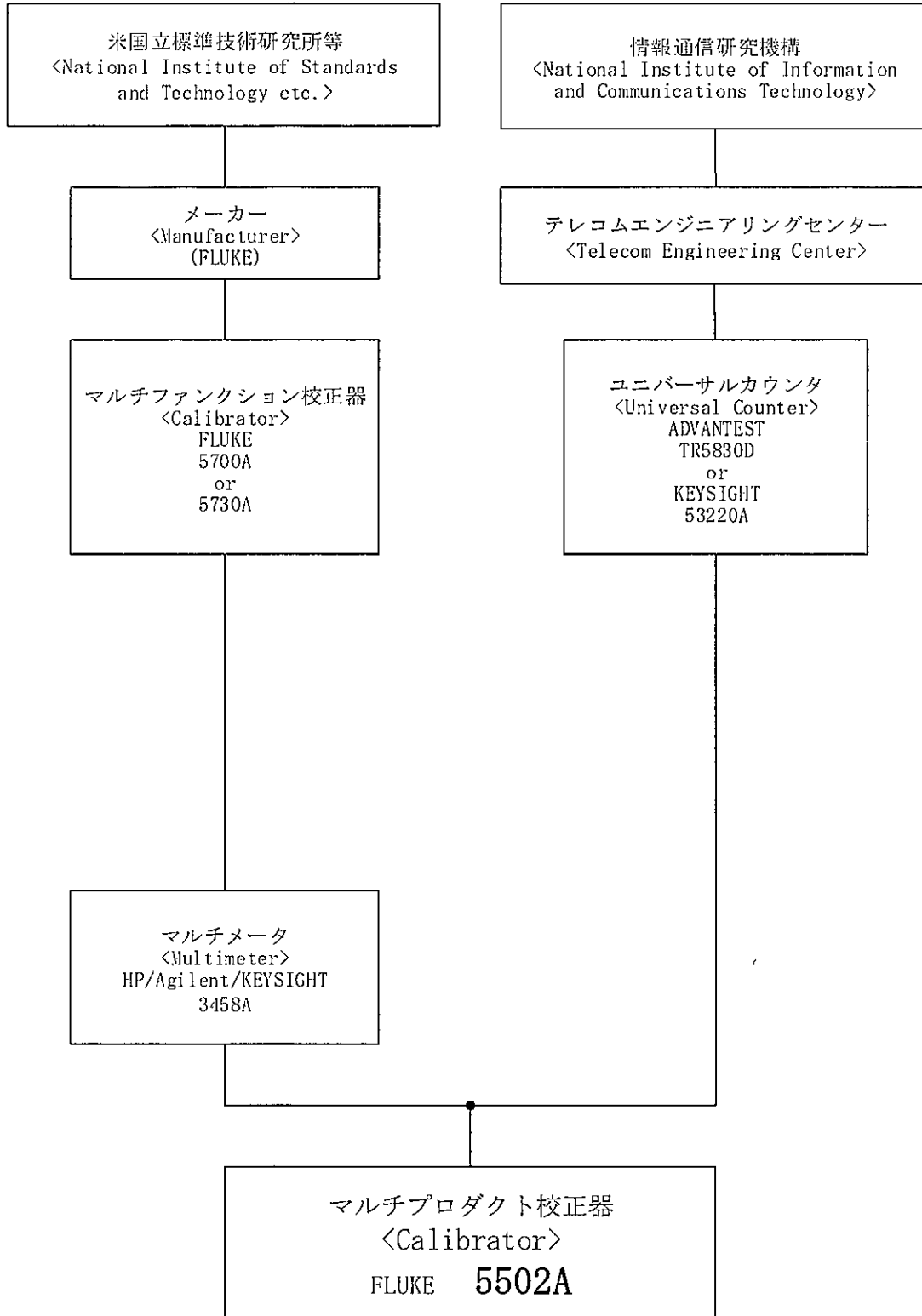


品名<Model Name>:パワーアナライザ<POWER ANALYZER>

形名<Model Number>:PW3390-02

備考<Note>:

使用標準器トレーサビリティ体系図  
<Traceability Chart for Calibration Equipment>

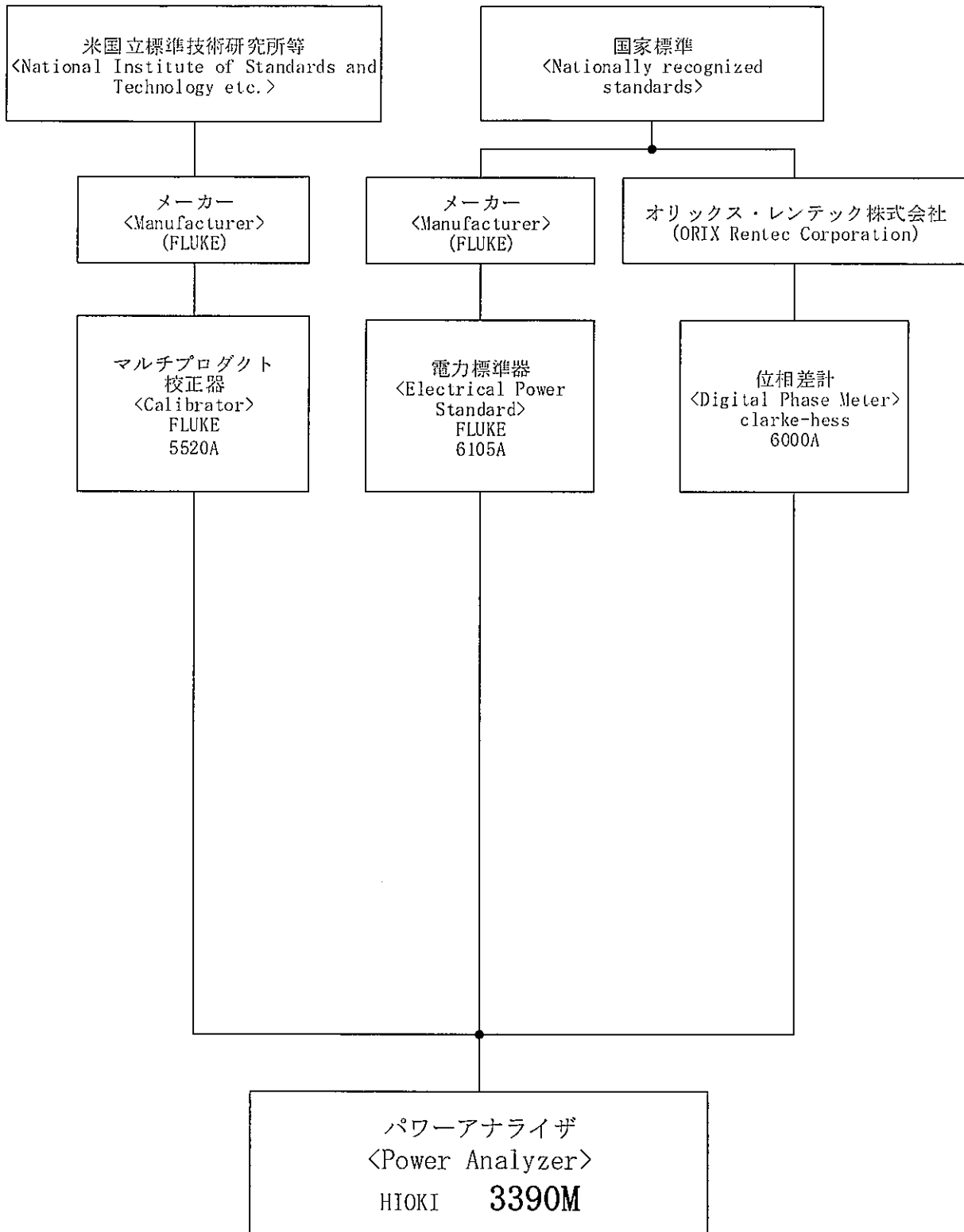


品名<Model Name>:パワーアナライザ<POWER ANALYZER>

形名<Model Number>:PW3390-02

備考<Note>:

## 使用標準器トレーサビリティ体系図 <Traceability Chart for Calibration Equipment>

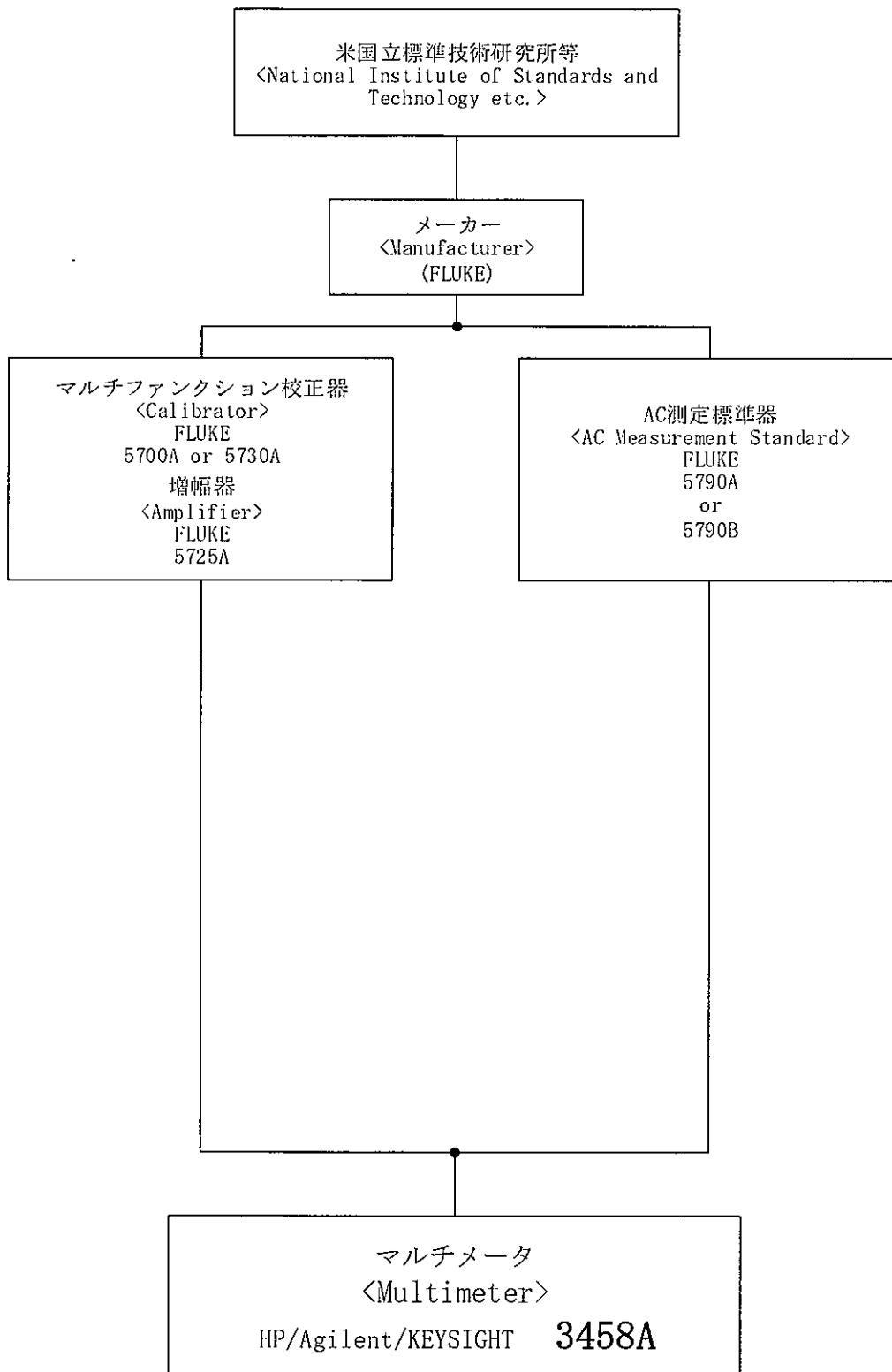


品名<Model Name>:パワーアナライザ<POWER ANALYZER>

形名<Model Number>:PW3390-02

備考<Note>:

使用標準器トレーサビリティ体系図  
<Traceability Chart for Calibration Equipment>



品名<Model Name>:パワーアナライザ<POWER ANALYZER>

形名<Model Number>:PW3390-02

備考<Note>:

検査成績表  
<TEST REPORT>

品名<Model Name> ( パワーアナライザ<POWER ANALYZER> )  
 形名<Model Number> ( PW3390-02 )  
 製造番号<Serial No.> ( No. 240122257 )  
 検査年月日<Test Date> ( 2024-01-24 )  
 <YYYY-MM-DD>  
 検査条件<Test Conditions> ( 23.6 °C, 48 %rh )

1. 電圧精度<Voltage Accuracy>

| 項目<br><Item>            | レクティファイア<br><Rect.> | レンジ<br><Range>    | 入力<Input>               |                     | 許容範囲<br><Tolerance>   | 校正値<Calibration Value> *1,*3 |                |               |               |               |
|-------------------------|---------------------|-------------------|-------------------------|---------------------|-----------------------|------------------------------|----------------|---------------|---------------|---------------|
|                         |                     |                   | <Volt>                  | <Freq.>             |                       | CH1                          | CH2            | CH3           | CH4           |               |
| 電圧<br><Voltage> (AC+DC) | RMS                 | 1.5kV             | 1kV                     | 55Hz                | 0.9989 kV ~ 1.0011 kV | ( 1.0000 kV )                | ( 1.0000 kV )  | ( 1.0000 kV ) | ( 1.0000 kV ) |               |
|                         |                     |                   | 0V                      | -                   | 0.0000 kV ~ 0.0000 kV | ( 0.0000 kV )                | ( 0.0000 kV )  | ( 0.0000 kV ) | ( 0.0000 kV ) |               |
|                         |                     |                   | 600V                    | 55Hz                | 599.46 V ~ 600.54 V   | ( 600.02 V )                 | ( 600.02 V )   | ( 600.02 V )  | ( 600.02 V )  |               |
|                         |                     | 600V              | 300V                    | 55Hz                | 299.73 V ~ 300.27 V   | ( 300.01 V )                 | ( 300.01 V )   | ( 300.01 V )  | ( 300.01 V )  |               |
|                         |                     |                   | 150V                    | 55Hz                | 149.87 V ~ 150.13 V   | ( 150.00 V )                 | ( 150.00 V )   | ( 150.00 V )  | ( 150.00 V )  |               |
|                         |                     |                   | 100V                    | 55Hz                | 99.89 V ~ 100.11 V    | ( 100.00 V )                 | ( 100.00 V )   | ( 100.00 V )  | ( 100.00 V )  |               |
|                         |                     | 300V              | 75V                     | 55Hz                | 74.90 V ~ 75.10 V     | ( 75.00 V )                  | ( 75.00 V )    | ( 75.00 V )   | ( 75.00 V )   |               |
|                         |                     |                   | 1.5V                    | 55Hz                | 1.43 V ~ 1.57 V       | ( 1.50 V )                   | ( 1.50 V )     | ( 1.50 V )    | ( 1.50 V )    |               |
|                         |                     |                   | 0V                      | -                   | 0.00 V ~ 0.00 V       | ( 0.00 V )                   | ( 0.00 V )     | ( 0.00 V )    | ( 0.00 V )    |               |
|                         | 150V                | 60V               | 55Hz                    | 59.946 V ~ 60.054 V | ( 60.000 V )          | ( 60.001 V )                 | ( 60.000 V )   | ( 60.000 V )  |               |               |
|                         |                     | 30V               | 55Hz                    | 29.973 V ~ 30.027 V | ( 29.999 V )          | ( 30.001 V )                 | ( 30.000 V )   | ( 30.000 V )  |               |               |
|                         |                     | 15V               | 55Hz                    | 14.987 V ~ 15.013 V | ( 15.000 V )          | ( 15.000 V )                 | ( 15.000 V )   | ( 15.000 V )  |               |               |
|                         |                     | 0V                | -                       | 0.000 V ~ 0.000 V   | ( 0.000 V )           | ( 0.000 V )                  | ( 0.000 V )    | ( 0.000 V )   |               |               |
|                         |                     | RMS               | 1.5kV                   | 1kV                 | 55Hz                  | 0.9989 kV ~ 1.0011 kV        | ( 1.0000 kV )  | ( 1.0000 kV ) | ( 1.0000 kV ) | ( 1.0000 kV ) |
|                         |                     | (AC)              | 600V                    | 600V                | 55Hz                  | 599.46 V ~ 600.54 V          | ( 600.00 V )   | ( 600.00 V )  | ( 600.01 V )  | ( 600.00 V )  |
|                         | 300V                | 300V              | 55Hz                    | 299.73 V ~ 300.27 V | ( 300.00 V )          | ( 299.99 V )                 | ( 299.99 V )   | ( 300.00 V )  |               |               |
|                         | 150V                | 150V              | 55Hz                    | 149.87 V ~ 150.13 V | ( 150.00 V )          | ( 150.00 V )                 | ( 150.00 V )   | ( 150.00 V )  |               |               |
|                         | 60V                 | 60V               | 55Hz                    | 59.946 V ~ 60.054 V | ( 59.999 V )          | ( 60.000 V )                 | ( 60.000 V )   | ( 60.000 V )  |               |               |
| 30V                     | 30V                 | 55Hz              | 29.973 V ~ 30.027 V     | ( 29.999 V )        | ( 30.000 V )          | ( 30.000 V )                 | ( 30.000 V )   |               |               |               |
| 15V                     | 15V                 | 55Hz              | 14.987 V ~ 15.013 V     | ( 15.000 V )        | ( 15.000 V )          | ( 15.000 V )                 | ( 15.000 V )   |               |               |               |
| DC                      | 1.5kV               | +1kV              | 0.9985 kV ~ 1.0015 kV   | ( 1.0000 kV )       | ( 1.0000 kV )         | ( 1.0000 kV )                | ( 1.0000 kV )  |               |               |               |
|                         |                     | 0V                | 0.0000 kV ~ 0.0000 kV   | ( 0.0000 kV )       | ( 0.0000 kV )         | ( 0.0000 kV )                | ( 0.0000 kV )  |               |               |               |
|                         |                     | -1kV              | -1.0015 kV ~ -0.9985 kV | ( -0.9999 kV )      | ( -1.0000 kV )        | ( -1.0000 kV )               | ( -1.0001 kV ) |               |               |               |
|                         |                     | 600V              | +600V                   | 599.28 V ~ 600.72 V | ( 600.02 V )          | ( 600.04 V )                 | ( 599.96 V )   | ( 599.99 V )  |               |               |
|                         |                     |                   | 0V                      | 0.00 V ~ 0.00 V     | ( 0.00 V )            | ( 0.00 V )                   | ( 0.00 V )     | ( 0.00 V )    |               |               |
|                         |                     |                   | +300V                   | 299.64 V ~ 300.36 V | ( 300.02 V )          | ( 299.99 V )                 | ( 299.97 V )   | ( 299.99 V )  |               |               |
|                         |                     | 150V              | 0V                      | 0.00 V ~ 0.00 V     | ( 0.00 V )            | ( 0.00 V )                   | ( 0.00 V )     | ( 0.00 V )    |               |               |
|                         |                     |                   | +150V                   | 149.82 V ~ 150.18 V | ( 150.01 V )          | ( 150.00 V )                 | ( 150.01 V )   | ( 150.01 V )  |               |               |
|                         |                     |                   | 0V                      | 0.00 V ~ 0.00 V     | ( 0.00 V )            | ( 0.00 V )                   | ( 0.00 V )     | ( 0.00 V )    |               |               |
|                         | 60V                 | -150V             | -150.18 V ~ -149.82 V   | ( -150.00 V )       | ( -150.01 V )         | ( -150.00 V )                | ( -150.01 V )  |               |               |               |
|                         |                     | +60V              | 59.928 V ~ 60.072 V     | ( 59.996 V )        | ( 60.002 V )          | ( 59.998 V )                 | ( 60.004 V )   |               |               |               |
|                         |                     | 0V                | 0.000 V ~ 0.000 V       | ( 0.000 V )         | ( 0.000 V )           | ( 0.000 V )                  | ( 0.000 V )    |               |               |               |
|                         |                     | +30V              | 29.964 V ~ 30.036 V     | ( 30.000 V )        | ( 30.002 V )          | ( 29.999 V )                 | ( 30.002 V )   |               |               |               |
|                         |                     | 0V                | 0.000 V ~ 0.000 V       | ( 0.000 V )         | ( 0.000 V )           | ( 0.000 V )                  | ( 0.000 V )    |               |               |               |
|                         |                     | 15V               | +15V                    | 14.982 V ~ 15.018 V | ( 15.000 V )          | ( 14.999 V )                 | ( 14.999 V )   | ( 15.000 V )  |               |               |
|                         | +0.15V              | 0.140 V ~ 0.160 V | ( 0.150 V )             | ( 0.149 V )         | ( 0.150 V )           | ( 0.150 V )                  | ( 0.150 V )    |               |               |               |
|                         |                     | -15V              | -15.018 V ~ -14.982 V   | ( -15.001 V )       | ( -15.001 V )         | ( -15.000 V )                | ( -15.000 V )  |               |               |               |
|                         |                     | 0V                | 0.000 V ~ 0.000 V       | ( 0.000 V )         | ( 0.000 V )           | ( 0.000 V )                  | ( 0.000 V )    |               |               |               |

備考<Note>

・特に設定の明記のない場合、以下の設定で検査しています。  
 センサ:「50A定格」、LPF:「OFF」、ゼロクロスフィルタ:「強」、アベレージ:「OFF」  
 <Inspection settings are as follows except noted.  
 CT sensor: 50A rated, LPF: OFF, Zero-cross filter: Strong, Averaging: OFF>

- \*1. ゼロサプレス設定 : 0.5% s. <Zero-suppress setting: 0.5% f.s.>
- \*2. ゼロサプレス設定 : OFF <Zero-suppress setting: OFF>
- \*3. FAIL判定箇所は、グレー表示としています。<FAIL decision points are highlighted in gray.>

|                                  |   |                                      |
|----------------------------------|---|--------------------------------------|
| 総合判定<Overall Result><br>( PASS ) | 発行責任者:製造部長<br><Director of Manufacturing> | ( Tsutomu Mandai )<br>Tsutomu Mandai |
|----------------------------------|---|--------------------------------------|

検査成績表  
<TEST REPORT>

製造番号<Serial No.> ( No. 240122257 )  
 検査年月日<Test Date> ( 2024-01-24 )  
 <YYYY-MM-DD>

2. 電流精度<Current Accuracy>

| 項目<br><Item>            | レクタファイア<br><Rect.>  | レンジ<br><Range>      | 入力<Input>             |                       | 許容範囲<br><Tolerance> | 校正値<Calibration Value> *1,*3 |               |               |              |
|-------------------------|---------------------|---------------------|-----------------------|-----------------------|---------------------|------------------------------|---------------|---------------|--------------|
|                         |                     |                     | <Curr.>               | <Freq.>               |                     | CH1                          | CH2           | CH3           | CH4          |
| 電流<br><Current> (AC+DC) | RMS                 | 50A                 | 50A                   | 55Hz                  | 49.955 A ~ 50.045 A | ( 49.999 A )                 | ( 49.999 A )  | ( 49.999 A )  | ( 49.999 A ) |
|                         |                     |                     | 0A                    | -                     | 0.000 A ~ 0.000 A   | ( 0.000 A )                  | ( 0.000 A )   | ( 0.000 A )   | ( 0.000 A )  |
|                         |                     |                     | 20A                   | 55Hz                  | 19.982 A ~ 20.018 A | ( 19.999 A )                 | ( 19.999 A )  | ( 20.000 A )  | ( 20.000 A ) |
|                         |                     | 20A                 | 10A                   | 55Hz                  | 9.991 A ~ 10.009 A  | ( 10.000 A )                 | ( 10.000 A )  | ( 10.000 A )  | ( 10.000 A ) |
|                         |                     |                     | 5A                    | 55Hz                  | 4.9955 A ~ 5.0045 A | ( 5.0001 A )                 | ( 5.0000 A )  | ( 5.0001 A )  | ( 5.0000 A ) |
|                         |                     | 2.5A                | 55Hz                  | 2.4965 A ~ 2.5035 A   | ( 2.4998 A )        | ( 2.4998 A )                 | ( 2.4998 A )  | ( 2.4998 A )  |              |
|                         |                     |                     | 0.5A                  | 55Hz                  | 0.4973 A ~ 0.5027 A | ( 0.4999 A )                 | ( 0.4999 A )  | ( 0.4999 A )  | ( 0.4999 A ) |
|                         |                     | 0.05A               | 55Hz                  | 0.0475 A ~ 0.0525 A   | ( 0.0500 A )        | ( 0.0500 A )                 | ( 0.0500 A )  | ( 0.0500 A )  |              |
|                         |                     | 0A                  | -                     | 0.0000 A ~ 0.0000 A   | ( 0.0000 A )        | ( 0.0000 A )                 | ( 0.0000 A )  | ( 0.0000 A )  |              |
|                         |                     | 2A                  | 55Hz                  | 1.9982 A ~ 2.0018 A   | ( 2.0000 A )        | ( 2.0000 A )                 | ( 2.0000 A )  | ( 2.0000 A )  |              |
|                         |                     | 1A                  | 55Hz                  | 0.9991 A ~ 1.0009 A   | ( 1.0000 A )        | ( 1.0000 A )                 | ( 1.0000 A )  | ( 1.0000 A )  |              |
|                         |                     | 0A                  | -                     | 0.0000 A ~ 0.0000 A   | ( 0.0000 A )        | ( 0.0000 A )                 | ( 0.0000 A )  | ( 0.0000 A )  |              |
|                         |                     | (AC)                | 50A                   | 55Hz                  | 49.955 A ~ 50.045 A | ( 49.999 A )                 | ( 49.999 A )  | ( 49.999 A )  | ( 49.999 A ) |
|                         |                     |                     | 20A                   | 55Hz                  | 19.982 A ~ 20.018 A | ( 19.999 A )                 | ( 19.999 A )  | ( 20.000 A )  | ( 19.999 A ) |
|                         |                     |                     | 10A                   | 55Hz                  | 9.991 A ~ 10.009 A  | ( 10.000 A )                 | ( 10.000 A )  | ( 10.000 A )  | ( 10.000 A ) |
| 5A                      | 55Hz                |                     | 4.9955 A ~ 5.0045 A   | ( 5.0001 A )          | ( 5.0001 A )        | ( 5.0001 A )                 | ( 5.0000 A )  |               |              |
| 2A                      | 55Hz                |                     | 1.9982 A ~ 2.0018 A   | ( 2.0000 A )          | ( 2.0000 A )        | ( 2.0000 A )                 | ( 2.0000 A )  |               |              |
| 1A                      | 55Hz                | 0.9991 A ~ 1.0009 A | ( 1.0000 A )          | ( 1.0000 A )          | ( 1.0000 A )        | ( 1.0000 A )                 |               |               |              |
| DC                      | DC                  | 50A                 | +50A                  | 49.940 A ~ 50.060 A   | ( 49.997 A )        | ( 50.002 A )                 | ( 49.997 A )  | ( 50.002 A )  |              |
|                         |                     |                     | 0A                    | 0.000 A ~ 0.000 A     | ( 0.000 A )         | ( 0.000 A )                  | ( 0.000 A )   | ( 0.000 A )   |              |
|                         |                     |                     | -50A                  | -50.060 A ~ -49.940 A | ( -50.000 A )       | ( -49.997 A )                | ( -49.997 A ) | ( -49.999 A ) |              |
|                         |                     | 20A                 | +20A                  | 19.976 A ~ 20.024 A   | ( 19.998 A )        | ( 19.999 A )                 | ( 20.000 A )  | ( 20.000 A )  |              |
|                         |                     |                     | 0A                    | 0.000 A ~ 0.000 A     | ( 0.000 A )         | ( 0.000 A )                  | ( 0.000 A )   | ( 0.000 A )   |              |
|                         |                     | 10A                 | +10A                  | 9.988 A ~ 10.012 A    | ( 9.999 A )         | ( 10.000 A )                 | ( 10.000 A )  | ( 10.000 A )  |              |
|                         |                     |                     | 0A                    | 0.000 A ~ 0.000 A     | ( 0.000 A )         | ( 0.000 A )                  | ( 0.000 A )   | ( 0.000 A )   |              |
|                         |                     | 5A                  | +5A                   | 4.9935 A ~ 5.0065 A   | ( 4.9995 A )        | ( 5.0000 A )                 | ( 4.9998 A )  | ( 4.9997 A )  |              |
|                         |                     |                     | 0A                    | 0.0000 A ~ 0.0000 A   | ( 0.0000 A )        | ( 0.0000 A )                 | ( 0.0000 A )  | ( 0.0000 A )  |              |
|                         |                     | -5A                 | -4.9935 A ~ -4.9995 A | ( -4.9999 A )         | ( -4.9997 A )       | ( -4.9996 A )                | ( -5.0001 A ) |               |              |
|                         |                     |                     | 2A                    | +2A                   | 1.9971 A ~ 2.0029 A | ( 2.0001 A )                 | ( 1.9999 A )  | ( 2.0002 A )  | ( 2.0001 A ) |
|                         |                     | 0A                  | 0.0000 A ~ 0.0000 A   | ( 0.0000 A )          | ( 0.0000 A )        | ( 0.0000 A )                 | ( 0.0000 A )  |               |              |
|                         |                     | 1A                  | +1A                   | 0.9983 A ~ 1.0017 A   | ( 1.0000 A )        | ( 1.0000 A )                 | ( 1.0000 A )  | ( 1.0000 A )  |              |
|                         |                     |                     | -1A                   | -1.0017 A ~ -0.9983 A | ( -1.0000 A )       | ( -1.0000 A )                | ( -0.9999 A ) | ( -1.0000 A ) |              |
|                         |                     | +0.01A              | 0.0088 A ~ 0.0112 A   | ( 0.0100 A )          | ( 0.0100 A )        | ( 0.0101 A )                 | ( 0.0101 A )  |               |              |
| 0A                      | 0.0000 A ~ 0.0000 A | ( 0.0000 A )        | ( 0.0000 A )          | ( 0.0000 A )          | ( 0.0000 A )        |                              |               |               |              |

3. 電力精度<Power Accuracy>

| 項目<br><Item>               | レクタファイア<br><Rect.> | レンジ<br><Range>       | 入力<Input>                  |                       | 許容範囲<br><Tolerance>   | 校正値<Calibration Value> *1,*3 |               |               |               |
|----------------------------|--------------------|----------------------|----------------------------|-----------------------|-----------------------|------------------------------|---------------|---------------|---------------|
|                            |                    |                      | <Volt/Curr./Pow./Freq./PF> |                       |                       | CH1                          | CH2           | CH3           | CH4           |
| -1.力率1<br>(cosφ=1) (AC+DC) | RMS                | 150V 5A              | 150V, 5A, 750W, 55Hz       | 1                     | 749.33 W ~ 750.67 W   | ( 750.01 W )                 | ( 750.00 W )  | ( 750.00 W )  | ( 749.99 W )  |
|                            |                    |                      | 150V, 2.5A, 375W, 55Hz     | 1                     | 374.48 W ~ 375.52 W   | ( 374.96 W )                 | ( 374.96 W )  | ( 374.96 W )  | ( 374.95 W )  |
|                            |                    |                      | 150V, 0.5A, 75W, 55Hz      | 1                     | 74.60 W ~ 75.40 W     | ( 75.00 W )                  | ( 74.99 W )   | ( 74.99 W )   | ( 74.99 W )   |
|                            |                    |                      | 150V, 0.05A, 7.5W, 55Hz    | 1                     | 7.13 W ~ 7.87 W       | ( 7.48 W )                   | ( 7.49 W )    | ( 7.49 W )    | ( 7.49 W )    |
|                            |                    | 150V, 0A, 0W, 55Hz   | -                          | 0.00 W ~ 0.00 W       | ( 0.00 W )            | ( 0.00 W )                   | ( 0.00 W )    | ( 0.00 W )    |               |
|                            |                    | 1.5kV 50A            | 1kV, 50A, 50kW, 55Hz       | 1                     | 49.943 kW ~ 50.057 kW | ( 49.999 kW )                | ( 49.999 kW ) | ( 49.998 kW ) | ( 50.000 kW ) |
|                            |                    | 1.5kV 1A             | 1kV, 1A, 1kW, 55Hz         | 1                     | 0.9989 kW ~ 1.0011 kW | ( 1.0000 kW )                | ( 1.0000 kW ) | ( 1.0000 kW ) | ( 0.9999 kW ) |
|                            |                    | 15V 50A              | 15V, 50A, 750W, 55Hz       | 1                     | 749.33 W ~ 750.67 W   | ( 749.99 W )                 | ( 749.98 W )  | ( 749.98 W )  | ( 749.99 W )  |
|                            |                    | 15V 1A               | 15V, 1A, 15W, 55Hz         | 1                     | 14.987 W ~ 15.013 W   | ( 15.000 W )                 | ( 15.000 W )  | ( 15.000 W )  | ( 15.001 W )  |
|                            |                    | 15V, 0A, 0W, 55Hz    | -                          | 0.000 W ~ 0.000 W     | ( 0.000 W )           | ( 0.000 W )                  | ( 0.000 W )   | ( 0.000 W )   |               |
| DC                         | 15V 1A             | +15V, +1A, +15W      | 14.975 W ~ 15.025 W        | ( 15.000 W )          | ( 14.999 W )          | ( 14.999 W )                 | ( 15.000 W )  |               |               |
|                            |                    | -15V, -1A, +15W      | 14.975 W ~ 15.025 W        | ( 15.000 W )          | ( 15.000 W )          | ( 14.999 W )                 | ( 14.999 W )  |               |               |
|                            |                    | +15V, +0.01A, +0.15W | 0.132 W ~ 0.168 W          | ( 0.150 W )           | ( 0.151 W )           | ( 0.151 W )                  | ( 0.151 W )   |               |               |
|                            |                    | 0V, 0A, 0W           | 0.000 W ~ 0.000 W          | ( 0.000 W )           | ( 0.000 W )           | ( 0.000 W )                  | ( 0.000 W )   |               |               |
|                            |                    | 1.5kV 50A            | +1kV, +50A, +50kW          | 49.922 kW ~ 50.078 kW | ( 49.999 kW )         | ( 49.999 kW )                | ( 49.996 kW ) | ( 50.001 kW ) |               |
|                            |                    | -1kV, -50A, +50kW    | 49.922 kW ~ 50.078 kW      | ( 49.996 kW )         | ( 49.995 kW )         | ( 49.998 kW )                | ( 50.006 kW ) |               |               |

検査成績表  
<TEST REPORT>

製造番号<Serial No.> ( No. 240122257 )  
 検査年月日<Test Date> ( 2024-01-24 )  
 <YYYY-MM-DD>

| 3. 電力精度<Power Accuracy>      |                    |                            |                            |                  |                     |                              |             |             |             |
|------------------------------|--------------------|----------------------------|----------------------------|------------------|---------------------|------------------------------|-------------|-------------|-------------|
| 項目<br><Item>                 | レクチファイア<br><Rect.> | レンジ<br><Range>             | 入力<Input>                  |                  | 許容範囲<br><Tolerance> | 校正値<Calibration Value> *2,*3 |             |             |             |
|                              |                    |                            | <Volt/Curr./Pow./Freq./PF> |                  |                     | CH1                          | CH2         | CH3         | CH4         |
| -2.力率 0<br>(cos φ=0) (AC+DC) | RMS                | 150V 5A                    | 150V, 5A, 0W, 55Hz, LEAD 0 |                  | -1.04 W ~ 1.04 W    | ( 0.06 W )                   | ( 0.07 W )  | ( 0.06 W )  | ( 0.07 W )  |
|                              |                    |                            | 150V, 5A, 0W, 55Hz, LAG 0  |                  | -1.04 W ~ 1.04 W    | ( -0.27 W )                  | ( -0.27 W ) | ( -0.27 W ) | ( -0.27 W ) |
|                              | 15V 50A            | 15V, 50A, 0W, 55Hz, LEAD 0 |                            | -1.04 W ~ 1.04 W | ( -0.08 W )         | ( -0.08 W )                  | ( -0.08 W ) | ( -0.08 W ) |             |
|                              |                    | 15V, 50A, 0W, 55Hz, LAG 0  |                            | -1.04 W ~ 1.04 W | ( 0.07 W )          | ( 0.08 W )                   | ( 0.08 W )  | ( 0.07 W )  |             |

| 4. 位相差<Phase Measurement> |                    |                |                                    |  |                     |                              |              |              |              |
|---------------------------|--------------------|----------------|------------------------------------|--|---------------------|------------------------------|--------------|--------------|--------------|
| 項目<br><Item>              | レクチファイア<br><Rect.> | レンジ<br><Range> | 入力<Input>                          |  | 許容範囲<br><Tolerance> | 校正値<Calibration Value> *2,*3 |              |              |              |
|                           |                    |                | <Volt/Curr./Pow./Freq./PF>         |  |                     | CH1                          | CH2          | CH3          | CH4          |
| -1.力率 0<br>(cos φ=0)      | φ                  | 150V 5A        | 150V, 5A, 0W, 55Hz, LEAD 0         |  | -90.08 ° ~ -89.92 ° | ( -90.00 ° )                 | ( -89.99 ° ) | ( -90.00 ° ) | ( -89.99 ° ) |
|                           |                    |                | 15V 50A 15V, 50A, 0W, 55Hz, LEAD 0 |  | -90.08 ° ~ -89.92 ° | ( -90.01 ° )                 | ( -90.01 ° ) | ( -90.01 ° ) | ( -90.01 ° ) |

| 5. ピーク測定<Peak Measurement> |                    |                |              |         |                       |                              |               |               |               |
|----------------------------|--------------------|----------------|--------------|---------|-----------------------|------------------------------|---------------|---------------|---------------|
| 項目<br><Item>               | レクチファイア<br><Rect.> | レンジ<br><Range> | 入力<Input>    |         | 許容範囲<br><Tolerance>   | 校正値<Calibration Value> *1,*3 |               |               |               |
|                            |                    |                | <Volt/Curr.> | <Freq.> |                       | CH1                          | CH2           | CH3           | CH4           |
| -1.電圧<br><Voltage> (AC+DC) | RMS                | 15V            | +15V         | DC      | 14.682 V ~ 15.318 V   | ( 15.039 V )                 | ( 15.037 V )  | ( 15.034 V )  | ( 15.034 V )  |
|                            |                    |                | -15V         | DC      | -15.318 V ~ -14.682 V | ( -15.039 V )                | ( -15.045 V ) | ( -15.047 V ) | ( -15.044 V ) |
| -2.電流<br><Current> (AC+DC) | RMS                | 1A             | +1A          | DC      | 0.9783 A ~ 1.0217 A   | ( 1.0089 A )                 | ( 1.0074 A )  | ( 1.0069 A )  | ( 1.0079 A )  |
|                            |                    |                | -1A          | DC      | -1.0217 A ~ -0.9783 A | ( -1.0080 A )                | ( -1.0089 A ) | ( -1.0075 A ) | ( -1.0074 A ) |

| 6. 周波数特性<Frequency Characteristic> |                     |                |              |                     |                            |                              |              |              |                     |                     |              |              |              |              |
|------------------------------------|---------------------|----------------|--------------|---------------------|----------------------------|------------------------------|--------------|--------------|---------------------|---------------------|--------------|--------------|--------------|--------------|
| 項目<br><Item>                       | レクチファイア<br><Rect.>  | レンジ<br><Range> | 入力<Input>    |                     | 許容範囲<br><Tolerance>        | 校正値<Calibration Value> *1,*3 |              |              |                     |                     |              |              |              |              |
|                                    |                     |                | <Volt/Curr.> | <Freq.>             |                            | CH1                          | CH2          | CH3          | CH4                 |                     |              |              |              |              |
| -1.電圧<br><Voltage> (AC+DC)         | RMS                 | 150V           | 150V         | 10Hz                | 149.78 V ~ 150.22 V        | ( 150.01 V )                 | ( 150.01 V ) | ( 150.01 V ) | ( 150.01 V )        |                     |              |              |              |              |
|                                    |                     |                |              |                     | 50Hz                       | 149.87 V ~ 150.13 V          | ( 150.00 V ) | ( 150.00 V ) | ( 150.00 V )        | ( 150.00 V )        |              |              |              |              |
|                                    |                     |                |              |                     | 60Hz                       | 149.87 V ~ 150.13 V          | ( 150.00 V ) | ( 150.00 V ) | ( 150.00 V )        | ( 150.00 V )        |              |              |              |              |
|                                    |                     |                |              |                     | 100Hz                      | 149.70 V ~ 150.30 V          | ( 150.00 V ) | ( 150.00 V ) | ( 150.00 V )        | ( 150.00 V )        |              |              |              |              |
|                                    |                     |                |              |                     | 500Hz                      | 149.70 V ~ 150.30 V          | ( 150.00 V ) | ( 150.00 V ) | ( 150.00 V )        | ( 150.00 V )        |              |              |              |              |
|                                    |                     |                |              |                     | 1kHz                       | 149.70 V ~ 150.30 V          | ( 150.00 V ) | ( 150.00 V ) | ( 150.00 V )        | ( 150.00 V )        |              |              |              |              |
|                                    |                     |                |              |                     | 5kHz                       | 149.55 V ~ 150.45 V          | ( 150.00 V ) | ( 150.01 V ) | ( 150.01 V )        | ( 150.01 V )        |              |              |              |              |
|                                    |                     |                |              |                     | 10kHz                      | 149.55 V ~ 150.45 V          | ( 150.03 V ) | ( 150.04 V ) | ( 150.04 V )        | ( 150.05 V )        |              |              |              |              |
|                                    |                     |                |              |                     | 100kHz                     | 148.05 V ~ 151.95 V          | ( 150.03 V ) | ( 150.04 V ) | ( 150.04 V )        | ( 150.05 V )        |              |              |              |              |
|                                    |                     |                |              |                     | MEAN<br>(AC+DC)            | 150V                         | 150V         | 110V         | 200kHz              | 80.00 V ~ 140.00 V  | ( 110.49 V ) | ( 110.23 V ) | ( 109.97 V ) | ( 110.17 V ) |
|                                    |                     |                |              |                     |                            |                              |              | 60Hz         | 149.87 V ~ 150.13 V | ( 150.00 V )        | ( 150.00 V ) | ( 150.00 V ) | ( 150.00 V ) |              |
|                                    |                     |                |              |                     |                            |                              |              | 1kHz         | 149.70 V ~ 150.30 V | ( 150.00 V )        | ( 150.00 V ) | ( 150.00 V ) | ( 150.00 V ) |              |
|                                    |                     |                |              |                     |                            |                              |              |              |                     |                     |              |              |              |              |
|                                    |                     |                |              |                     | -2.電流<br><Current> (AC+DC) | RMS                          | 5A           | 5A           | 10Hz                | 4.9925 A ~ 5.0075 A | ( 5.0001 A ) | ( 5.0001 A ) | ( 5.0001 A ) | ( 5.0001 A ) |
| 50Hz                               | 4.9955 A ~ 5.0045 A | ( 5.0000 A )   | ( 5.0000 A ) | ( 5.0000 A )        |                            |                              |              |              |                     | ( 5.0000 A )        |              |              |              |              |
| 60Hz                               | 4.9955 A ~ 5.0045 A | ( 5.0003 A )   | ( 5.0002 A ) | ( 5.0003 A )        |                            |                              |              |              |                     | ( 5.0003 A )        |              |              |              |              |
| 100Hz                              | 4.9900 A ~ 5.0100 A | ( 4.9998 A )   | ( 4.9998 A ) | ( 4.9998 A )        |                            |                              |              |              |                     | ( 4.9998 A )        |              |              |              |              |
| 500Hz                              | 4.9900 A ~ 5.0100 A | ( 4.9999 A )   | ( 4.9999 A ) | ( 4.9999 A )        |                            |                              |              |              |                     | ( 4.9999 A )        |              |              |              |              |
| 1kHz                               | 4.9900 A ~ 5.0100 A | ( 5.0001 A )   | ( 5.0001 A ) | ( 5.0001 A )        |                            |                              |              |              |                     | ( 5.0001 A )        |              |              |              |              |
| 5kHz                               | 4.9850 A ~ 5.0150 A | ( 5.0005 A )   | ( 5.0005 A ) | ( 5.0007 A )        |                            |                              |              |              |                     | ( 5.0005 A )        |              |              |              |              |
| 10kHz                              | 4.9850 A ~ 5.0150 A | ( 5.0027 A )   | ( 5.0026 A ) | ( 5.0029 A )        |                            |                              |              |              |                     | ( 5.0028 A )        |              |              |              |              |
| 100kHz                             | 4.9350 A ~ 5.0650 A | ( 4.9824 A )   | ( 4.9821 A ) | ( 4.9903 A )        |                            |                              |              |              |                     | ( 4.9834 A )        |              |              |              |              |
| 200kHz                             | 4.0000 A ~ 6.0000 A | ( 4.7397 A )   | ( 4.7316 A ) | ( 4.7577 A )        |                            |                              |              |              |                     | ( 4.7362 A )        |              |              |              |              |
| MEAN<br>(AC+DC)                    | 5A                  | 5A             | 60Hz         | 4.9955 A ~ 5.0045 A |                            |                              |              |              |                     | ( 5.0002 A )        | ( 5.0002 A ) | ( 5.0002 A ) | ( 5.0002 A ) |              |
|                                    |                     |                | 1kHz         | 4.9900 A ~ 5.0100 A |                            |                              |              |              |                     | ( 5.0002 A )        | ( 5.0002 A ) | ( 5.0002 A ) | ( 5.0002 A ) |              |
|                                    |                     |                |              |                     |                            |                              |              |              |                     |                     |              |              |              |              |



検査成績表  
<TEST REPORT>

製造番号<Serial No.> ( No. 240122257 )  
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 <YYYY-MM-DD>

| 6. 周波数特性<Frequency Characteristic> |                     |                |                   |         |                     |                              |              |              |              |
|------------------------------------|---------------------|----------------|-------------------|---------|---------------------|------------------------------|--------------|--------------|--------------|
| 項目<br><Item>                       | レクティファイア<br><Rect.> | レンジ<br><Range> | 入力<Input>         |         | 許容範囲<br><Tolerance> | 校正値<Calibration Value> *1,*3 |              |              |              |
|                                    |                     |                | <Volt/Curr./Pow.> | <Freq.> |                     | CH1                          | CH2          | CH3          | CH4          |
| -3.電力<br><Power> (AC+DC)           | RMS                 | 150V 5A        | 150V,5A,750W      | 10Hz    | 748.88 W ~ 751.12 W | ( 750.06 W )                 | ( 750.04 W ) | ( 750.05 W ) | ( 750.05 W ) |
|                                    |                     |                |                   | 50Hz    | 749.33 W ~ 750.67 W | ( 750.01 W )                 | ( 750.00 W ) | ( 750.01 W ) | ( 750.00 W ) |
|                                    |                     |                |                   | 60Hz    | 749.33 W ~ 750.67 W | ( 750.01 W )                 | ( 750.00 W ) | ( 750.01 W ) | ( 750.01 W ) |
|                                    |                     |                |                   | 100Hz   | 748.50 W ~ 751.50 W | ( 749.99 W )                 | ( 749.98 W ) | ( 749.99 W ) | ( 749.99 W ) |
|                                    |                     |                |                   | 500Hz   | 748.50 W ~ 751.50 W | ( 749.98 W )                 | ( 749.99 W ) | ( 749.99 W ) | ( 749.98 W ) |
|                                    | RMS<br>(AC+DC)      | 15V 1A         | 15V,1A,15W        | 10Hz    | 14.978 W ~ 15.022 W | ( 15.001 W )                 | ( 15.001 W ) | ( 15.001 W ) | ( 15.001 W ) |
|                                    |                     |                |                   | 50Hz    | 14.987 W ~ 15.013 W | ( 14.999 W )                 | ( 14.999 W ) | ( 14.999 W ) | ( 15.000 W ) |
|                                    |                     |                |                   | 60Hz    | 14.987 W ~ 15.013 W | ( 15.000 W )                 | ( 15.000 W ) | ( 15.000 W ) | ( 15.000 W ) |
|                                    |                     |                |                   | 100Hz   | 14.970 W ~ 15.030 W | ( 15.000 W )                 | ( 15.000 W ) | ( 15.000 W ) | ( 15.001 W ) |
|                                    |                     |                |                   | 500Hz   | 14.970 W ~ 15.030 W | ( 15.000 W )                 | ( 15.000 W ) | ( 15.000 W ) | ( 15.000 W ) |
|                                    |                     |                |                   | 1kHz    | 14.970 W ~ 15.030 W | ( 14.999 W )                 | ( 14.999 W ) | ( 14.999 W ) | ( 15.000 W ) |
|                                    |                     |                |                   | 5kHz    | 14.955 W ~ 15.045 W | ( 15.007 W )                 | ( 15.007 W ) | ( 15.008 W ) | ( 15.009 W ) |

| 7. LPF精度<LPF Accuracy>     |                     |                |        |                     |                     |                              |              |              |              |
|----------------------------|---------------------|----------------|--------|---------------------|---------------------|------------------------------|--------------|--------------|--------------|
| 項目<br><Item>               | レクティファイア<br><Rect.> | レンジ<br><Range> | 入力     |                     | 許容範囲<br><Tolerance> | 校正値<Calibration Value> *1,*3 |              |              |              |
|                            |                     |                | <LPF>  | <Volt/Curr.><Freq.> |                     | CH1                          | CH2          | CH3          | CH4          |
| -1.電圧<br><Voltage> (AC+DC) | RMS                 | 15V            | 500Hz  | 15V 60Hz            | 14.972 V ~ 15.028 V | ( 15.000 V )                 | ( 15.005 V ) | ( 15.006 V ) | ( 15.004 V ) |
|                            |                     |                | 5kHz   | 15V 500Hz           | 14.970 V ~ 15.030 V | ( 15.000 V )                 | ( 15.004 V ) | ( 15.004 V ) | ( 15.003 V ) |
|                            |                     |                | 100kHz | 15V 20kHz           | 14.775 V ~ 15.225 V | ( 14.981 V )                 | ( 14.978 V ) | ( 14.972 V ) | ( 14.976 V ) |
| -2.電流<br><Current> (AC+DC) | RMS                 | 5A             | 500Hz  | 5A 60Hz             | 4.9905 A ~ 5.0095 A | ( 5.0010 A )                 | ( 5.0017 A ) | ( 5.0013 A ) | ( 5.0012 A ) |
|                            |                     |                | 5kHz   | 5A 500Hz            | 4.9900 A ~ 5.0100 A | ( 5.0011 A )                 | ( 5.0014 A ) | ( 5.0008 A ) | ( 5.0013 A ) |
|                            |                     |                | 100kHz | 5A 20kHz            | 4.9250 A ~ 5.0750 A | ( 4.9954 A )                 | ( 4.9955 A ) | ( 4.9918 A ) | ( 4.9959 A ) |

| 8. 周波数測定<Frequency Measurement> |                     |                |              |         |                       |                              |               |               |               |
|---------------------------------|---------------------|----------------|--------------|---------|-----------------------|------------------------------|---------------|---------------|---------------|
| 項目<br><Item>                    | レクティファイア<br><Rect.> | レンジ<br><Range> | 入力<Input>    |         | 許容範囲<br><Tolerance>   | 校正値<Calibration Value> *1,*3 |               |               |               |
|                                 |                     |                | <Volt/Curr.> | <Freq.> |                       | CH1                          | CH2           | CH3           | CH4           |
| (AC+DC)                         | RMS                 | 15V<br>1A      | 15V          | 55Hz    | 54.990 Hz ~ 55.010 Hz | ( 55.000 Hz )                | ( 55.000 Hz ) | ( 55.000 Hz ) | ( 55.000 Hz ) |
|                                 |                     |                | 1A           | 55Hz    | 54.972 Hz ~ 55.028 Hz | ( 55.000 Hz )                | ( 55.000 Hz ) | ( 55.000 Hz ) | ( 55.000 Hz ) |

検査成績表  
<TEST REPORT>

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8. D/A出力オプション アナログ出力精度<D/A Output Option Analog Output Accuracy>

| 項目<br><Item>              | 出力基底値<Fiducial Value><br><Volt> | 許容範囲<br><Tolerance>   | 校正値<Calibration Value> *3 |                  |
|---------------------------|---------------------------------|-----------------------|---------------------------|------------------|
|                           |                                 |                       | CH1 - CH8                 | CH9 - CH16       |
| アナログ出力<br><Analog Output> | +5V                             | 4.9900 V ~ 5.0100 V   | CH1( 5.0000 V)            | CH9( 5.0001 V)   |
|                           |                                 | 4.9900 V ~ 5.0100 V   | CH2( 4.9999 V)            | CH10( 5.0000 V)  |
|                           |                                 | 4.9900 V ~ 5.0100 V   | CH3( 5.0001 V)            | CH11( 5.0000 V)  |
|                           |                                 | 4.9900 V ~ 5.0100 V   | CH4( 5.0000 V)            | CH12( 5.0000 V)  |
|                           |                                 | 4.9900 V ~ 5.0100 V   | CH5( 5.0001 V)            | CH13( 5.0001 V)  |
|                           |                                 | 4.9900 V ~ 5.0100 V   | CH6( 5.0000 V)            | CH14( 4.9999 V)  |
|                           |                                 | 4.9900 V ~ 5.0100 V   | CH7( 4.9999 V)            | CH15( 4.9999 V)  |
|                           |                                 | 4.9900 V ~ 5.0100 V   | CH8( 5.0000 V)            | CH16( 5.0001 V)  |
|                           | +2V                             | 1.9900 V ~ 2.0100 V   | CH1( 1.9998 V)            | CH9( 2.0003 V)   |
|                           |                                 | 1.9900 V ~ 2.0100 V   | CH2( 1.9989 V)            | CH10( 2.0007 V)  |
|                           |                                 | 1.9900 V ~ 2.0100 V   | CH3( 1.9989 V)            | CH11( 2.0000 V)  |
|                           |                                 | 1.9900 V ~ 2.0100 V   | CH4( 1.9995 V)            | CH12( 1.9998 V)  |
|                           |                                 | 1.9900 V ~ 2.0100 V   | CH5( 1.9994 V)            | CH13( 2.0002 V)  |
|                           |                                 | 1.9900 V ~ 2.0100 V   | CH6( 1.9993 V)            | CH14( 2.0002 V)  |
|                           |                                 | 1.9900 V ~ 2.0100 V   | CH7( 1.9993 V)            | CH15( 2.0006 V)  |
|                           |                                 | 1.9900 V ~ 2.0100 V   | CH8( 1.9996 V)            | CH16( 1.9999 V)  |
|                           | 0V                              | -0.0100 V ~ 0.0100 V  | CH1( -0.0003 V)           | CH9( 0.0000 V)   |
|                           |                                 | -0.0100 V ~ 0.0100 V  | CH2( -0.0018 V)           | CH10( 0.0004 V)  |
|                           |                                 | -0.0100 V ~ 0.0100 V  | CH3( -0.0018 V)           | CH11( 0.0004 V)  |
|                           |                                 | -0.0100 V ~ 0.0100 V  | CH4( -0.0010 V)           | CH12( 0.0000 V)  |
|                           |                                 | -0.0100 V ~ 0.0100 V  | CH5( -0.0009 V)           | CH13( 0.0002 V)  |
|                           |                                 | -0.0100 V ~ 0.0100 V  | CH6( -0.0013 V)           | CH14( 0.0002 V)  |
|                           |                                 | -0.0100 V ~ 0.0100 V  | CH7( -0.0010 V)           | CH15( 0.0008 V)  |
|                           |                                 | -0.0100 V ~ 0.0100 V  | CH8( -0.0008 V)           | CH16( 0.0003 V)  |
|                           | -5V                             | -5.0100 V ~ -4.9900 V | CH1( -5.0006 V)           | CH9( -4.9986 V)  |
|                           |                                 | -5.0100 V ~ -4.9900 V | CH2( -5.0036 V)           | CH10( -4.9991 V) |
|                           |                                 | -5.0100 V ~ -4.9900 V | CH3( -5.0036 V)           | CH11( -4.9990 V) |
|                           |                                 | -5.0100 V ~ -4.9900 V | CH4( -5.0019 V)           | CH12( -5.0003 V) |
| -5.0100 V ~ -4.9900 V     |                                 | CH5( -5.0017 V)       | CH13( -4.9989 V)          |                  |
| -5.0100 V ~ -4.9900 V     |                                 | CH6( -5.0026 V)       | CH14( -4.9984 V)          |                  |
| -5.0100 V ~ -4.9900 V     |                                 | CH7( -5.0018 V)       | CH15( -4.9984 V)          |                  |
| -5.0100 V ~ -4.9900 V     |                                 | CH8( -5.0017 V)       | CH16( -4.9982 V)          |                  |

9. D/A出力オプション 波形出力精度<D/A Output Option Wave Output Accuracy>

| 項目<br><Item>          | レンジ<br><Range> | 入力<Input><br><Volt/Freq.> | 許容範囲<br><Tolerance> | 校正値<Calibration Value> *3,*4 |                |
|-----------------------|----------------|---------------------------|---------------------|------------------------------|----------------|
|                       |                |                           |                     | CH1 - CH4                    | CH5 - CH8      |
| 波形出力<br><Wave Output> | 15V            | 15V 55Hz                  | 1.9882 V ~ 2.0118 V | CH1( 2.0000 V)               | CH5( 2.0001 V) |
|                       |                |                           | 1.9882 V ~ 2.0118 V | CH2( 2.0005 V)               | CH6( 2.0003 V) |
|                       |                |                           | 1.9882 V ~ 2.0118 V | CH3( 2.0005 V)               | CH7( 2.0002 V) |
|                       |                |                           | 1.9882 V ~ 2.0118 V | CH4( 2.0001 V)               | CH8( 2.0002 V) |
|                       | 15V            | 15V 5kHz                  | 1.9840 V ~ 2.0160 V | CH1( 1.9996 V)               | CH5( 1.9998 V) |
|                       |                |                           | 1.9840 V ~ 2.0160 V | CH2( 2.0002 V)               | CH6( 2.0001 V) |
|                       |                |                           | 1.9840 V ~ 2.0160 V | CH3( 2.0002 V)               | CH7( 1.9999 V) |
|                       |                |                           | 1.9840 V ~ 2.0160 V | CH4( 1.9999 V)               | CH8( 1.9999 V) |

備考<Note>

\*4. U1の波形出力を実効値(RMS)で確認 <Check RMS output of U1 waveform.>

波形出力: ON、D/A出力f.s.: 2V、入力: 正弦波

< Wave Output : On , D/A Output f.s. : 2V , Input : Sinusoid >