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HIOKI E.E. CORPORATION
Quality Assurance Division

Notice about the of measurement value error

Dear valued customers,

Thank you very much for your continued patronage.

We have found a possibility that the power phase angle measurement may become the out of accuracy specifications on the 15MS/S INPUT UNIT U7005.

As this may affect to the measurement values, we would like to repair the subjected products for free.

1. Subjected products

All POWER ANALYER PW8001 series equipped with 15MS/S INPUT UNIT U7005

2. Details of failure

On the U7005, the power phase angle measurement error is occasionally increased when turning on the power, and it may become out of the accuracy specifications at about 20kHz or higher.

However, if it is used with the current sensors (actual use), the measurement error remains within the accuracy specifications of the total accuracy of the U7005 and current sensors even if the failure occurs.

The Figure 1 in below shows the typical example of measurement error of this failure, accuracy specifications of the U7005 itself, and accuracy specifications when using with the AC/DC CURRENT SENSOR CT6904A.

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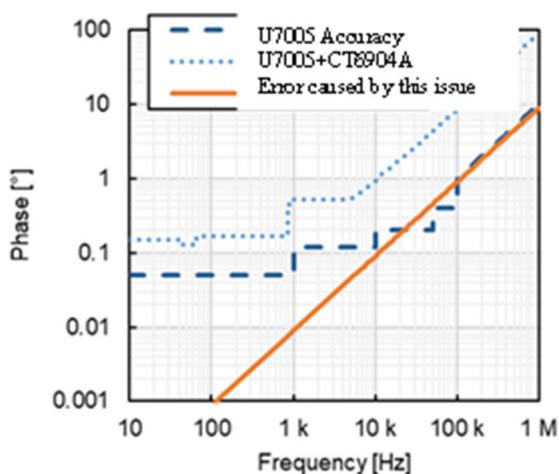


Figure 1: Comparison of the phase error caused by this failure and accuracy specification

[Reference]

- 1. When using the clamp type current sensor (CT684x, CT683x, 9272-05)
The phase error caused by this failure is small enough to inherent phase error, the impact of this failure is considered as minimal.
- 2. When using the fixed loop type or direct connection type (CT687x, CT686x, CT6904A, PW9100A)
 - (1) When measuring the DC or commercial frequency
The phase error caused by this failure is small enough to inherent phase error of current sensor, so that the impact of this failure is considered as minimal.
 - (2) When measuring the signal containing the high frequency and power factor power like reactor, transformer, non-contact power supply coil, inverter, and coil, etc.
The significant impact to the measurement value is expected by this failure.

3. Action for subjected products

Rewriting the component data in the U7005 at free of charge. (It is not possible to rewrite by a customer, because it requires the adjustment and inspection after rewriting the data after disassembling the U7005.)

Please contact to our sales office about the purchased PW8001 equipped with the U7005.

If you have any question in this regard, please contact to our nearest sales office.

Sincerely yours,

T. Yamaguchi

Tsutomu Yamaguchi
Director of Quality Assurance