

IQ DP-4000

Frequently Asked Questions - “FAQs”

October 15, 1996

The following is a guide of Frequently Asked Questions (FAQs) regarding the new IQ DP-4000. We hope this information will help you become familiar with this new product so you may better serve your customers. Should you have any other questions, please feel free to contact the Advanced Products Support Center 1-800-809-2772 for technical information, or the IQ Metering and Protection product line direct:

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What is a DP-4000?

The IQ DP-4000 is Cutler-Hammer’s new mid-range offering in the IQ Metering family of products. The IQ DP-4000 will eventually replace the IQ Data Plus II. We plan to offer both products for the next 4 to 6 months, then the Data Plus II will be dropped from the product offering

How is this product different from the IQ Data Plus II?

- Increased Accuracy. The IQ DP-4000 will measure voltages and currents with an accuracy of +/- 0.3 % of Full Scale. This accuracy is maintained from 3% to 250% of the full scale of the device.
- Additional Parameters: VA, Var-hours, VA-hours, % THD for all currents and voltages, minimum values for currents, voltages, Watts, Vars VA, frequency and power factor; and maximum values for demand and % THD.
- Enhanced Alarm/Protection Capability. The Alarm/Protective functions of the IQ DP-4000 have been enhanced to provide the user greater flexibility.
- Load Shedding Feature. The IQ DP-4000 will give the user the ability to initiate a pulse based on a Watts or VA present or demand reading, metered or demand current.

Why is the new product called the IQ DP-4000?

As with the IQ Analyzer model 6000 and 6200, all new IQ Metering and Protection products will follow a new nomenclature. In order to differentiate between the 4 different styles of IQ DP-4000s, we have added a 4 digit catalog number. All IQ DP-4000s shipped from the factory will be identified as IQ DP 4XXX. The second digit will identify the functionality level of the unit. The 41XX will include Alarming functions similar to the IQ Data Plus II. As with the Data Plus II, *TWO* relay outputs are provided that can be programmed to operate based on any of the following conditions: external alarm, over-voltage, under-voltage, current phase loss, voltage phase loss, voltage phase reversal, voltage phase unbalance. The model 40XX version can alarm and indicate the same conditions on the faceplate or via IMPACC, but do not include relay outputs for external indication. The third digit will be used in the catalog number to identify which power module, (three phase or separate source) is to be supplied with the unit.

The following table shows the new catalog numbers for the new IQ DP-4000:

<u>Catalog Number</u>	<u>Style Number</u>	<u>Description</u>
IQDP4030	4D13110G01	DP4000 Three Phase power no I/O
IQDP4010	4D13110G02	DP4000 Separate Source power no I/O
IQDP4130	4D13110G03	DP4000 Three Phase power with I/O
IQDP4110	4D13110G04	DP4000 Separate Source power with I/O

**Effective 10/15/96 the list price and discount schedule for all IQ Metering and Protection products will be revised. Please refer to the PAD or VISTA for further details.*

What are the differences between a IQ DP-4000 and a 4100?

The IQ DP-4000 comes in two models, the 4000 and 4100. The 40XX has the metering and alarm functions. It will alarm on the faceplate and in Series III, but with the 40XX, there is not an I/O board. The IQ DP-41XX has the I/O, and can offer voltage alarm protection.

Why did you offer a 4000 and a 4100?

Customer feedback indicated less than 5% of our customers use the relay outputs that came standard on the DP4000. By providing two models, we can give the customer the flexibility to order the type of unit they would really be using.

I have an older version of IMPACC software, can this device communicate with this older system?

YES! The IQ DP-4000 has a dip switch setting that will allow the device to communicate as a Data Plus II. All IQ DP-4000's will be configured at the factory to communicate "Data Plus II mode". If the user wants to communicate as an IQ DP-4000, simply set the appropriate dip switch and all additional parameters (VA, VA-hours, %THD Etc) will now be displayed.

If I look at the product, can I determine if it is a 4000 or a 4100?

The faceplate of the units will be the same for all 4 styles of product. There will be a sticker on the back of the unit that will indicate the style number of the unit. On the 4000 series, there will be a large sticker that says NO I/O on the back of the unit. Also, similar notation will appear on the box of the IQ DP-4000.

Will the new DP-4000 have a HV model like the Data Plus II did?

NO, due primarily to the new dip-switch design, the DP-4000 can be used in a High Voltage application. The new dip-switch design permits a large range of CT/PT ratios, enabling the device to be used in low, medium and high voltage applications. There are 512 CT ratios and 512 PT ratios supported as opposed to 16 PT ratios and 32 CT ratios in the Data Plus II.

What literature is available on the IQ DP-4000?

- TD 17548 available now from Commercial Communications Inc. in Wisconsin 1-800-362-8832.
- Descriptive Bulletin available from Trafford Printing (DB 8170) (412-829-6316). This replaced the DP4000 DB.
- Both are now also available on FRED, the Fax retrieval of Engineering Documents on 412-494-3745.

What should I do with my current IQDP4000 democase?

IQDP-4000's will be provided to upgrade existing IQ Data Plus II/ IQ 1000II demo cases. If you have a demo case that you would like to upgrade, please contact Reid Vance (Banyon: vancerg or E-Mail vancerg@ch.etn.com)
Demo units should be available by early December.