

Technical Support Bulletin 2019-03	Unpacking Nortek Aquadopp II ACM Data	September 17, 2019
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Alert Level: **IMPORTANT**

Instruments: MMP

Software Versions: Unpacker v3.12 and earlier

Hardware Version: N/A

Subject: Unpacking Nortek Aquadopp II ACM Data

Summary: Aquadopp II data files (e.g. Axxxxxxx.DAT) unpacked by Unpacker Release v3.12 and earlier contain nearly entirely correct data except that some of the Aquadopp II data fields are not unpacked into the text file.

Solution: Unpacker Release v3.13.5 is updated with Nortek Data Format 2 (DF2) data parameters for unpacking Nortek Aquadopp II data files. Customers with Nortek Aquadopp II ACM's should install and use Unpacker Release v3.13.5.

Note – Contact mclane@mclanelabs.com if using v3.13.5 and you need to unpack decimated files.

Additionally, customers who previously unpacked Aquadopp II data files with Unpacker Release v3.12 and earlier, can use Unpacker Release v3.13.5 to re-process those files.

Technical Details: Nortek Aquadopp II sensors have different data formats. The sensor manufacturer provided Nortek Data Format 1 (DF1) as the guideline to integrate with the MMP. Therefore, the Unpacker was programmed to use this data format. However, the Aquadopp II ACM records all files in Nortek Data Format 2 (DF2).

Unpacker v3.13.5 follows Nortek Data Format 2 (DF2) for data unpacking parameters according to Nortek's "Integrators_Guide_AD2CP_2013-02-15.pdf" This document is available from Nortek or McLane.

About Nortek Data Format 2 (DF2): Unpacker Release v3.13.5 organizes the data in an updated structure to eliminate many of the columns of data that do not change from measurement to measurement within the same profile. Constants are organized at the header of the text file. Each constant is preceded with an asterisk character (*), followed by the parameter name and value.

Data that changes from measurement to measurement follows the constants header, with a data record for each measurement in time. For specific field description and units, refer to Nortek's "Integrators_Guide_AD2CP_2013-02-15.pdf."

Note – For comparison, use the links below to view Nortek Aquadopp II ACM file outputs (Axxxxxxx.DAT) from Unpacker versions 3.12 and 3.13.5.

[Unpacker versions 3.12](#)

[Unpacker versions 3.13.5](#)