



HYPACK
a xylem brand

Sounding Better!

Generic Parsing Updates to the DraftTable.dll

By John Marinuzzi

The DraftTable.dll enables automatic updates of the draft values based on the speed of the vessel. With the DraftTable driver, you build a table of speeds and their corresponding drafts to be stored as draft corrections for post-processing. DraftTable.dll can use the calculated speed of the vessel based on movement, or you can read the speeds from an external device through a serial or network port.

Not all external devices send the same string. This is where the generic parser comes in handy. The driver already had the ability to specify a generic parser, but it was very limited. You could specify the start of a string and a hard beginning and offset position to get the data.

Generic Parser in Previous Versions

Setup Form

Interpolation
☒ Linear ☐ Spline

Dual Draft Corrections
☐ Enable separate corrections for shallow and deep water
Shallow Depth Limit:
Deep Depth Limit:

Generic Speed Over Water Reader
☐ Enabled
String ID:
Position:
Length:
Multiplier:
End Of Line: ☐ CR Only ☒ CR / LF

Draft vs. Speed

	Speed	Shallow Draft	Deep Draft
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

But not all input strings have consistent start and end positions for the data. The new version of DraftTable.dll overcomes that by adding a field number parser if there is a consistent field delimiter (like a NMEA string for example). It still has the fixed field parser as well, so this should be able to handle just about any string you can throw at it.

Generic Parser in HYPACK 2020

Setup Form

Interpolation
☒ Linear ☐ Spline

Dual Draft Corrections
☒ Enable Separate Corrections
For Shallow and Deep Water
Shallow Depth Limit
Deep Depth Limit

Generic Speed Over Water Reader
☒ Enabled
String ID
Multiplier
End Of Line
☐ CR Only ☒ CR/LF
☒ Fixed Length Offset ☐ Field Number
Position
Length
Field
Delimiter

	Speed	Shallow Draft	Deep Draft
1	0	1.2	
2	2	1	
3	4	1.4	
4	6	1.3	
5	8	1.2	
6	10	1	
7	12	0.95	
8	14	1	
9	16	1.2	

Draft vs. Speed

Graph OK Cancel

If you need help setting up the driver to read your device output, then please let us know.