

# Hydrolab DATASONDE 4a

## Hydrolab DATASONDE 4a communication protocol

[Supported device types and versions](#)

[Communication line configuration](#)

[Communication station configuration](#)

[I/O tag configuration](#)

[Literature](#)

[Changes and modifications](#)

[Document revisions](#)

### Supported device types and versions

---

This protocol supports data reading from Hydrolab DATASONDE 4a. The device must be in the TTY communication mode.

### Communication line configuration

---

The line parameters:

- Communication line category: [Serial](#).
- Baud rate 2400,4800,9600 or 19200 Bd (according to settings of DATASONDE).
- The number of stop bits according to settings of DATASONDE.
- The number of data bits according to settings of DATASONDE.
- Parity according to settings of DATASONDE.

Other parameters are stated in the chapter [Communication lines](#).

### Communication station configuration

---

- Communication protocol: **HYDROLAB DataSonde 4a**
- The station address is not used.

## Station protocol parameters

You can configure the following I/O tags:

**Table 1**

Keyword	Full name	Meaning	Unit	Default value
WT	Wait Timeout	The delay between reading the line.	ms	1000 ms
MWR	Max Wait Retry	Maximum retries of reading the response until it is completed.	-	35

String with protocol parameters is written according to this rule:

```
Key_word=value;Key_word=value; ...
```

Example:

```
WT=2000;MWR=40;
```

If a keyword with a valid value has not been found in the initial string, the default value is used according to Table 1.

### I/O tag configuration

---

The received values can be AI (Analog input) or TIR (Time interval - input).

These data are separated by blank space and ended by CR and LF characters. The address defines the index of value ranging from 1 (or as a hexadecimal number with a hash at the beginning, e.g. #0A). Value type TIR may be used for value with index 1 – it is a device time.

### Literature

---

-

### Changes and modifications

---

## Document revisions

---

- Ver. 1.0 – May 9, 2000 – Creation of document



### Related pages:

[Communication protocols](#)