Data format for absolute magnetic flux density

Header

{Measuring location} {Sensor ID} {Type of measurement} {Measuring accuracy} \n

Columns from - to	Formatting	Description, unit and comments
0 – 0	#	Marking of the header line
2 – 5	CCCC PLHH	Identification of the measuring location (PLHH = Plattenhausenhütte, STSC = Steinschachten)
7 – 10	CCCC MA01	Sensor ID (MA01 = absolute magnetometer #1)
12 – 15	CCCC BABS	Type of measurement (BABS = absolute magnetic flux density)
17 – 25	F.FFFe±II 0.01	Resolution according to manufacturer's specifications [nT]
27 – 35	F.FFFe±II 0.1	Absolute accuracy according to manufacturer's specifications [nT]

Data line

{Time of day (UTC)} {Measurement data} {Status information} \n

Columns from - to	Formatting	Description, unit and comments
0 – 23	YYYY-MM-DDT hh:mm:ss.sssZ 2022-01-04T 16:43:16.234Z	Timestamp UTC according to ISO 8601 (seconds to three decimal places)
25 – 39	F.FFFFFFFFe±II 48027.71	Scalar magnetic flux density [nT]
41 – 48	BBBBBBBB 99000000	Status or error code; the first two digits contain the status/error code as provided by the GSM-90 magnetometers used.[1] The remaining digits are currently vacant.

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[1] The first digit of the code is associated with the measurement duration achieved and serves as an indicator for a gradient. The second digit represents the area under the measured amplitude within the measurement interval. Optimal conditions are indicated by a "9" and unacceptable conditions by a "0".