

Scubapro / Uwatec Galileo G2 Version 2.0 Air / EAN / Trimix / Heliox Check:



8.1.Gerätedaten
ID: 7000410719
HW-Ver.: 0.0
SW-Ver.: 2.0
Batterie: mittel
Speicher:
501739520 Bytes frei.

comparison of the Galileo G2
Firmwareversions
1.6 vs. 2.0
along various simulated
diving scenarios

NDL (*) comparison with other computers:

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depth [m]	Aladin TEC 2G	Galileo G2 V 1.6	Galileo G2 V 2.0	G2 TEK
9	99	199	199	199
12	99	121	121	155
15	70	69	69	81
18	50	48	49	55
21	36	35	35	40
24	27	26	26	29
27	21	20	20	22
30	16	16	16	18
33	13	14	14	15
36	11	12	12	12
39	10	10	10	10

Aladin TEC & G2:
MicroBubble Level
MB Lvl = L0

(MB Level: user
adjustable Micro-
Bubble level)

G2 TEK:
Gradientfactors
GF High =
GF Low =
1.0 (= 100 %)

(*) :
no-
decompression
-limits
in minutes
for air dives

NDL (*) comparison with other computers:

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depth [m]	Aladin TEC 2G	Galileo G2 V 1.6	Galileo G2 V 2.0	G2 TEK
42	9	8	8	9
45	8	7	7	8
48	7	6	6	7
51	6	6	6	6
54	6	5	5	5
57	5	4	4	4
60	5	4	4	-
63	4	3	3	-
66	4	3	3	-

Aladin TEC & G2:
MicroBubble Level
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(MB Level: user
adjustable Micro-
Bubble level)

G2 TEK:
Gradientfactors
GF High =
GF Low =
1.0 (= 100 %)

(*) :
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in minutes
for air dives

Dive Planner results:

G2 V 1.6, G2 V 2.0 & G2 TEK V 1.0

MB Level 0 → 3 (L0 → L3)

**for the dive: 42 m @ fresh water/
25 min bottom time @ Air**

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G2: MB Level Lx	G2 V 1.6: TTS (*) [min]	G2 V 2.0: TTS (*) [min]		G2 TEK GF High / GF Low / TTS (*) [min]
-/-	-/-	-/-		100 / 100 / 32
L0	37	41		90 / 90 / 39
L1	41	46		85 / 85 / 44
L2	47	51		80 / 80 / 52
L3	52	57		75 / 75 / 59

MB Level Lx: MicroBubble Level, x = 1 → 10

GF: Gradientfactors for the G2 TEK

**(*) TTS: time-to-surface = sum of all stop times + ascent time
(here ca. 6 min for the G2 & G2 TEK)**

Comparison with other Scubapro/UWATEC Computers for the dive: 42 m / 25 min bottom time; @ Air

Computertype:	ca. TTS [min]	Year (ca.)
TEC (1st. Generation)	36	2003
TEC 2G	38	2007
Pro Ultra	40	2002
Aladin [2]	40	2014
Matrix (MB Level L0)	49	2016 (*)
Galileo 2 / G2 (MB Level L0)	40	2017 (*) V 1.2
Galileo 2 / G2 (MB Level L0)	47	2019 V 1.5
Galileo 2 / G2 (MB Level L0)	37	2021 V 1.6
Galileo 2 / G2 (MB Level L0)	41	2022 V 2.0
G2 TEK (GF: 100 / 100)	32	2022 V 1.0
(*) Change from ZH-L 8 to ZH-L 16, all configured for „fresh water“ where possible		

TTS [min] of 9 schedules @ Air, fresh water:

schedule			G2 <u>V 1.6</u> with MB Level L0	G2 <u>V 2.0</u> with MB Level L0	G2 TEC GF 100 / 100
12 m / 180 min			22	24	7
12 m / 300 min			60	62	34
18 m / 60 min			10	12	6
18 m / 180 min			105	108	81
30 m / 120 min			n.a.	n.a. (111 min → TAT 196)	182
33 m / 60 min			93	102	77
45 m / 30 min			63	72	54
51 m / 30 min			89	100	72
60 m / 21 min			73	83	62

TTS [min] of 9 schedules @ Air, fresh water;
the schedules are aligned along the „ZH-86“ air diving table from
A. A. Bühlmann

Dive Planner results:

G2 V 2.0, G2 V 1.6 & G2 TEK V 1.0:

**MB Level 0 (L0) for G2, resp. GF 100 / 100 for G2 TEK
for the dive: 39 m @ fresh water/**

45 min bottom time @ EAN32

	Depth [m]	Bottom time [min]	TTS / % CNS / OTU	
G2 V 2.0	39 m	45:	51 / 54 / 85	
G2 V 1.6	39 m	45:	45 / 54 / 85	
G2 TEK	39 m	45:	38 / 54 / 85	

**40 m @ fresh water & 45 min with EAN32 should approach very quickly
a 100 % NOAA-CNS dose (in [min]).**

G2 & G2 TEK: Dive Planner max. depth = 39 m (up to MOD)

G2 TEK: 100 % CNS after 83: (OTU 162)

G2 V1.6: 99 % CNS after 82: (OTU 161), 101 % CNS after 83: (OTU 163)

G2 V2.0: 99 % CNS after 82: (OTU 162), 101 % CNS after 83: (OTU 164)

The OTU (Oxygen Tolerance Unit) are not relevant here.

Dive Planner results, sample of G2 V2.0

G2 V 2.0, G2 V 1.6 & G2 TEK V 1.0

MB Level 0 (L0), GF 100 / 100

for the dive: 39 (G2) @ fresh water/

45 min bottom time @ **EAN32**

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	Depth [m]	Bottom time [min]	TTS / % CNS / OTU	
G2 V 2.0	39 m	45:	51 / 54 / 85	
G2 V 1.6	39 m	45:	45 / 54 / 85	
G2 TEK	39 m	45:	38 / 54 / 85	

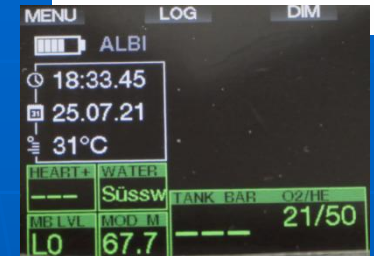


Trimix: TMX 21 / 50

Box Profile @ L0:

42 m / 25 min
bottom time

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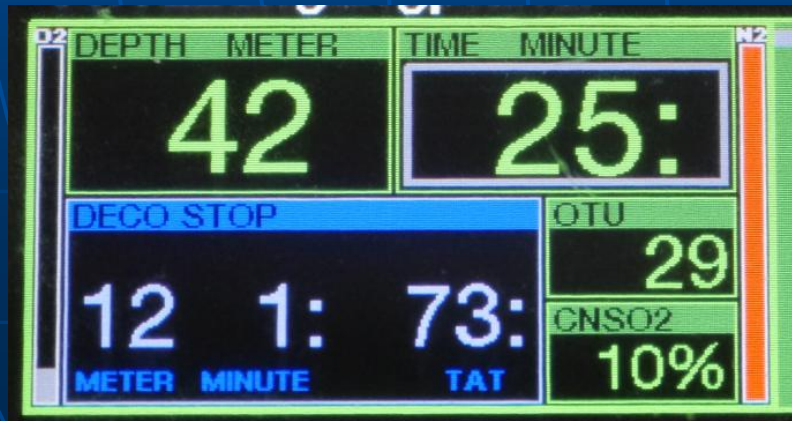


← V 1.2 (2019)

(2021) V 1.6 →

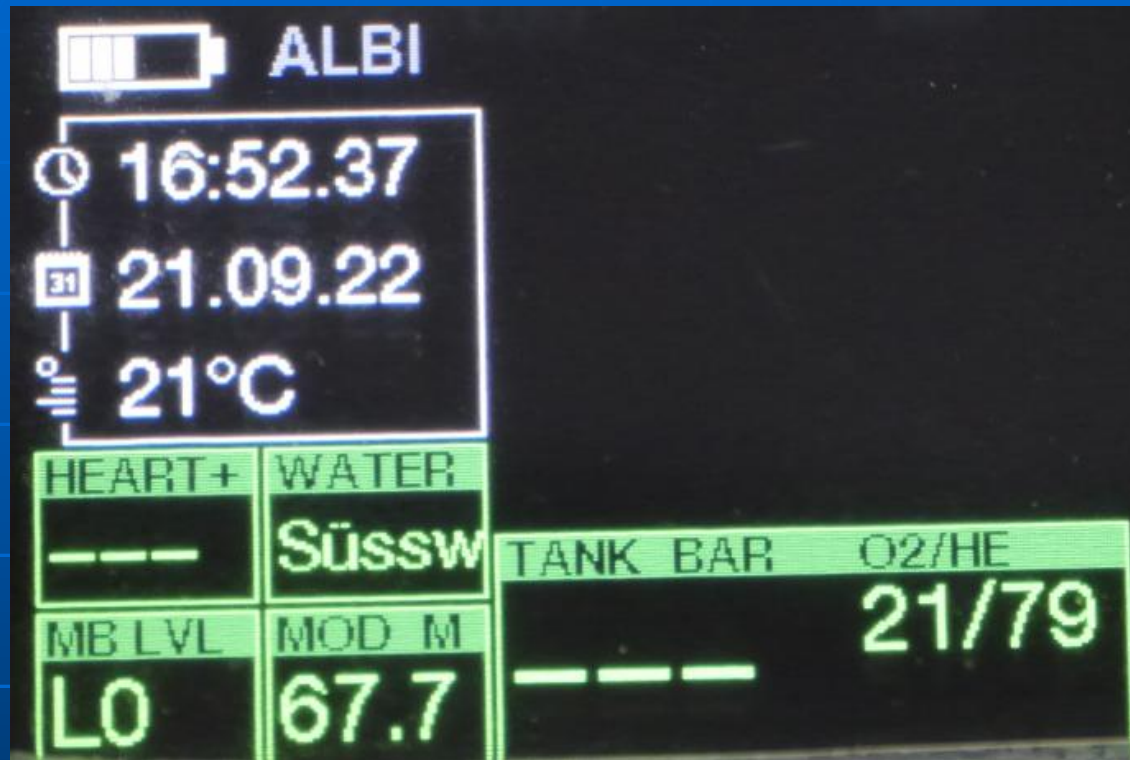


V 2.0 (2022) ↓



Heliox 21(21 % O₂, 79 % Helium) Box Profile 42 m / 25 min @ L0

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ID: 7000410719
HW-Ver.: 0.0
SW-Ver.: 2.0
Batterie: mittel
Speicher:
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Our notorious the „test dive“, the Box Profile with:
bottom depth 42 m / 25 min bottom time @ Heliox 21/79,
MB Level L0 for the G2 Versions 1.6 & 2.0,
ascent time: 6 min, i.e. ascent speed = 7 m / min,
Water Density: fresh water („Süsw.“).

Heliox 21(21 % O₂, 79 % Helium)

Box Profile 42 m / 25 min @ L0

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stop times	15 m	12 m	9 m	6 m	3 m	ca. TTS
Computer:						
G2 TEK		6	17	25	37	91
G2 V <u>2.0</u>	2	10	25	35	54	132
G2 V <u>1.2</u>	2	n.a.	n.a.	n.a.	n.a.	140

the „test dive“ 42 m / 25 min with Heliox 21/79,
G2 : MB Level L0; G2 Tek: GF 100 / 100
ascent time: 6 min, i.e. ascent speed = 7 m / min

Further reading with more information on the:

**➔ G2 TEK V 1.0
and Gradient Factors
and Helium:**

<https://dx.doi.org/10.13140/RG.2.2.22374.50247>

➔ G2 V 2.0: Altitude Adaption:

<https://dx.doi.org/10.13140/RG.2.2.16961.84326>

These Files are on RESEARCHGATE