Scubapro / Uwatec Galileo G2 & *G2* TEK Air / EAN / Nitrox Check

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Tauchsportcenter Esslingen

Tauchsportcenter Esslingen / DE
@ www.tsc-esslingen.de
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Scubapro / UWATEC Galileo 2 TEK / *G2* TEK

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Used Hard- & Software Versions from left to right:

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- **Scubapro/UWATEC Galileo 2 / G2:** HW-Ver.: 0.0, SW-Ver.: 1.6
- ***G2* TEK:** HW-Ver.: 1.0, SW-Ver.: 1.0
- **Shearwater PERDIX:** V 2009087 w.

Firmware: v87 / BT10 Hardware: SA-02A

Configured for: Süsswasser / fresh water; 21% O_2 / 79 % N_2

Scubapro *G2* TEK: unboxing

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… comes complete with: protective box, Quick Reference Manual, USB cable, Bungee, Display Protector

Scubapro *G2* TEK: the Gradient Factors Menu

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Input for the GF Low & GF High parameters: values from 50 ➔ 100;
i.e. from 50 % ➔ 100 %

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Dive Planner Menu / *G2* TEK V 1.0:
depth: 42 m; fresh water;
bottom time 25 min @ Air: TAT / TTS → 32 min (V1.0)
with Gradient Factors: 100 / 100

Scubapro / UWATEC
Galileo 2 TEK / *G2* TEK:
Hardware Version 1.0
Software Version 1.0
per 07/2022

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

Dive Planner results / G2 V 1.6 & *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	G2: TTS (*) [min]		*G2* TEK GF High / GF Low / TTS (*) [min]	DIVE V 3_11: TTS (*) [min]	PERDIX
			GF Hi / GF Lo / TTS [min]	ascent speed = 7 m / min GF Hi / GF Lo / TTS [min]	GF Hi / GF Lo / TTS [min]
-/-	-/-		100 / 100 / 32	100 / 100 / 31	99 / 99 / 23
L0	37		90 / 90 / 39	90 / 90 / 38	90 / 90 / 29
L1	41		85 / 85 / 44	85 / 85 / 42	85 / 85 / 33
L2	47		80 / 80 / 52	80 / 80 / 46	80 / 80 / 37
L3	52		75 / 75 / 59	75 / 75 / 53	75 / 75 / 41

MB Level Lx: MicroBubble Level, x = 1 → 10
(*) 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

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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
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

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schedule			G2 with MB Level L0	*G2* TEC GF 100 / 100	Perdix GF 99 / 99
12 m / 180 min			22	**7**	„NDL“ 185
12 m / 300 min			60	**34**	n.a.
18 m / 60 min			10	**6**	„NDL“ 62
18 m / 180 min			105	**81**	64
30 m / 120 min			n.a.	**182**	145
33 m / 60 min			93	**77**	60
45 m / 30 min			63	**54**	40
51 m / 30 min			89	**72**	55
60 m / 21 min			73	**62**	43

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

Perdix

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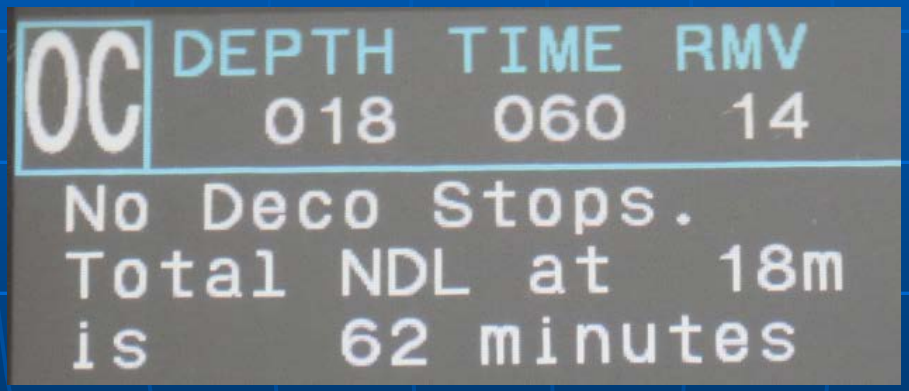
schedule		G2 with MB Level L0	G2 TEC GF 100 / 100	Perdix GF 99 / 99
12 m / 180 min		22	7	„NDL“ 185
12 m / 300 min		60	34	n.a.
18 m / 60 min		10	6	„NDL“ 62
18 m / 180 min		105	81	64
30 m / 120 min		n.a.	182	145
33 m / 60 min		93	77	60
45 m / 30 min		63	54	40
51 m / 30 min		89	72	55
60 m / 21 min		73	62	43



Two examples of PERIDX in planning mode, showing the „NDL“ for the schedules of 12 & 18 m @ Air in fresh water;
180 min is max. time for this planner

Three examples from the „Dive Planner“ Menu:

G2 TEK

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➔ 12 m schedule with gradient factor pair 75 / 75; there results the „NDL“ of 84 min TTS

➔ 30 m / 120 min: TTS exceeded

➔ schedule 42 m / 25 min with GF 75 / 75: the resulting TTS of 59 min.

Dive Planner results / G2 V 1.6 & *G2* TEK V 1.0:
MB Level 0 (L0), GF 100 / 100
for the dive: *39 (G2*) & *40 m* (Perdix) @ fresh water/
45 min bottom time @ EAN32

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	Depth [m]	Bottom time [min]	TTS / % CNS / OTU	TTS / % CNS / OTU (DIVE)
Perdix	40 m	45:	31 / 61 / n.a	35 / 100.0 / -.-
G2 TEK	39 m	45:	38 / 54 / 85	31 / 54.2 / 83
G2	39 m	45:	45 / 54 / 85	31 / 54.2 / 83
-.-	39 m	82: 83:	-.-	-.- / 98.8 / 151.3 -.- / 98.9 / 151.5

40 m @ fresh water & 45 min with EAN32 should approach very quickly a 100 % NOAA-CNS dose ([min] = :).
Perdix: 100 % CNS after 72: (should be approx. > 160 %);
Perdix @ 39 m/45: 47 % CNS, @ 82: 89 % CNS, @83: 90 % CNS

G2 & *G2* TEK: Dive Planner max. depth = 39 m (up to MOD)
***G2* TEK: 100 % CNS after 83: (OTU 162)**
G2: 99 % CNS after 82: (OTU 161), 101 % CNS after 83: (OTU 163)

Dive Planner results / G2 V 1.6 & *G2* TEK V 1.0:
MB Level 0 (L0), GF 100 / 100
for the dive: *39 (G2) & 40 m (Perdix)* @ fresh water/
45 min bottom time @ EAN32

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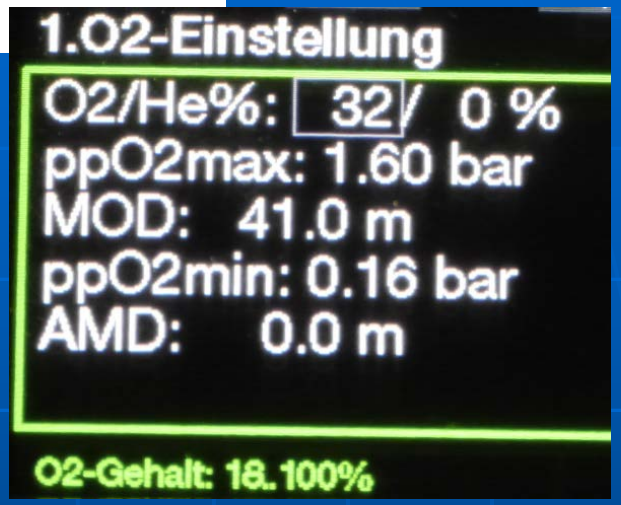

Perdix: 40 m / 45: ↑
G2 TEK: 39 m / 45: ↓

G2 TEK: O_2 Menu ↑
G2 TEK: 39 m / 83: ↓

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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

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