



4.0 SERVICE WORKSHOP GUIDELINES AND INFORMATION WORKING INSTRUCTION N° 18

P-19-R-127

05.09.2017

QUARTZ MOVEMENTS - TECHNICAL CHARACTERISTICS

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


1. Technical characteristics

Explanation of the symbols for the tables below:





1 = with engaged chronograph	3 = PreciDrive Technologie since 2015	U-mini = lower working-voltage limit	V = volt	min = minute
2 = thermo-compensated	4 = Movements can no longer be serviced (Electronic devices are no longer available)	imp/min = number of motorimpulses per minutes	µA = microampere	kΩ = kilo-ohm

	OMEGA	1270 ¹	1310/15	1320/25	1330	1332/33/36/37	1342/43/45/46	1350	1351	1352/53
	Omega-ref:	1447023	1447018	1447017	1447003 / 2	1447016	1447003 / 2	1447011	1447010	1447010/7011
	Renata	394	386	384	329	381	329	364	362	362 / 364
	Voltage (V)	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
	+/- (s/month)	-3 / +6	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15
	(imp/min)	60 / 960 ¹	60	24	24	60	60	1	1	1
	(kΩ)	3.25 / 3.55	2.0 - 2.5	2.0 - 2.5	2.0 - 3.0	2.9 - 3.9	1.8 - 3.0	1.5	1.5	1.5
	Consumption (µA)	1.20 / 23.00 ¹	7.50	5.00	4.80	2.70	4.20	0.80	0.80	0.80
	U-mini (V)	1.20 / 1.25 ¹	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.20
	Battery life (month)	48	21	13	13	24	12	34	48	34
	MT rate (s)	Trimer	Trimer	Trimer	Trimer	Trimer	Trimer	«Trimer» graphite	Trimer	Trimer
	Calendar Jump (min)	-1 / +10	-	-60 / +90	-	-60 / +90	-60 / +90	-	-	-



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	OMEGA	1353B/4000	1360	1365	1370	1374/76	1375	1377	1378/1478	1379/1479
	Omega-ref:	1447015	1447017	1447011	147023	1447002	1447002	1447006	1447006	1447006
	Renata	379	384	364	394	321	321	341	341	341
	Voltage (V)	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
	+/- (s/month)	-12 / +9	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15
	(imp/min)	3	60	1	60	60	3	12	3	3
	(kΩ)	0.9 - 1.2	2.0 - 2.5	1.5 - 2.0	2.5 - 3.5	1.5-1.7 / 1.85	1.5 - 1.7	2.4 - 3.2	1.2 - 1.55	1.2 - 1.55
	Consumption (μA)	0.35	5.00	0.65	5.00	0.70	0.80	1.25	0.50	0.50
	U-mini (V)	1.30	1.25	1.25	1.25	1.30	1.30	1.30	1.30	1.30
	Battery life (month)	48	12	34	24	41 / 48	39	20	28	28
	MT rate (s)	60	Trimer	Trimer	Trimer	60	60	60	60	60
	Calendar Jump (min)	-	-60 / +90	-	-60 / +90	-	-	-	-	0 / +120





QUARTZ MOVEMENTS - TECHNICAL CHARACTERISTICS

	OMEGA	1380/82	1383	1387	1400B	1417/18	1420/25	1422	1424	1426/27
	Omega-ref:	1447011	1447011	1447002	7221400B4000SET	1447014	1447013	1447013	1447000/7013	1447000
	Renata	364	364	321	321	373	371	371	315/362	315
	Voltage (V)	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
	+/- (s/month)	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15
	(imp/min)	60	60	1	60	60	60	60	60	60
	(kΩ)	3.0 - 4.0	1.7 - 2.1	1.6 - 1.8	0.6 - 1.0	2.6 - 2.9	1.3 - 1.8	1.5 - 3.0	1.3 - 1.6	1.3 - 1.8
	Consumption (μA)	1.6	1.3	0.50	1.10	1.6	1.3	1.5	1.20	1.20
	U-mini (V)	1.3	1.3	1.30	1.20	1.25	1.3	1.3	1.30	1.30
	Battery life (month)	17	17	24	100 days	24	29	29	32 / 48	22
	MT rate (s)	Trimer	60	«Trimer» graphite	120	Trimer	60	Trimer	60	60
	Calendar Jump (min)	-10 / +10	-10 / +10	-	0 / +180	-10 / +10	-10 / +10	-10 / +10	-30 / +180	-10 / +10





QUARTZ MOVEMENTS - TECHNICAL CHARACTERISTICS

	OMEGA	1428	1429 ²	1430/31/32 1530/32	1433/34/36/40	1435/1437	1438/1441 ² 1538	1444/45 ²	1449 ²	1450
	Omega-ref:	1447000	1447000	1447014	1447014	1447014	1447014/7024 7013	1447014	1447014	1447001
	Renata	315	315	373	373	373	373/395/371	373	373	317
	Voltage (V)	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
	+/- (s/month)	-9 / +15	-2 / +2	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-9 / +15
	(imp/min)	12	60	60	12	60	60	60	60	3
	(kΩ)	1.3 -1.8	1.2 - 1.7	1.3 - 1.75	1.3 - 1.75	1.3 - 1.75	1.3 - 1.75	1.3 - 1.75	1.3 -1.75	2.25 - 2.45
	Consumption (μA)	0.75	1.20	1.20	0.70	1.20	1.20	1.50	1.50	0.40
	U-mini (V)	1.25	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
	Battery life (month)	36	24	26	48	26	26 / 48 /40	26	26	24
	MT rate (s)	60	480	60	60	60	480	60 / 480 ²	480	Trimer
	Calendar Jump (min)	-10 / -10	-30 / +180	-10 / +10	-10 / +10	-30 / +30	-30 / +180	-30 / +60	-30 / +30	-

QUARTZ MOVEMENTS - TECHNICAL CHARACTERISTICS

	OMEGA	1455/56	1459	1459B	1460	1470/71	1655	1665B	1666	1670 ¹
	Omega-ref:	1447002	1447005	1447005	1447015	1447008	1447020	1447012	1449953E20	1447023
	Renata	321	335	335	379	346	391	370	CR2320	394
	Voltage (V)	1.55	1.55	1.55	1.55	1.55	1.55	1.55	3	1.55
	+/- (s/month)	-9 / +15	-9 / +15	-9 / +15	-12 / +18	-9 / +15	-9 / +15	-9 / +15	-2 / +2	-9 / +15
	(imp/min)	3	3	5	60	5	1	2	60	60
	(kΩ)	2.1 - 2.4	2.1 - 2.5	1.5 - 1.8	1.45 - 1.75	1.2 - 1.5	1.5 - 1.7	2.0 - 2.4	4.8	1.0 - 2.5
	Consumption (μA)	0.60 / 0.50	0.40	0.35	1.0	0.50	2.90	2.00		3.60 / 5.80 ¹
	U-mini (V)	1.30	1.30	1.30	1.30	1.30	1.30	1.30	2.35	1.30
	Battery life (month)	30 / 48	24	34	24	30	22	22 / 24	36	30
	MT rate (s)	60	60	60	60	60	120	60	960	60
	Calendar Jump (min)	-	-	-	-	-	-	Digital	Digital	+30 / +210

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	OMEGA	1675 ¹	1680	4061 ³	4561 ³	4563/4564 ³	5200 ¹	5619	5666	
	Omega-ref:	1447023	1447025	1447011	1447011	1447014/7013	1447023	1449953E20	1447026	
	Renata	394	399	364	364	373 / 371	394	CR2320	CR2450N	
	Voltage (V)	1.55	1.55	1.55	1.55	1.55	1.55	3	3	
	+/- (s/month)	-9 / +15	+1.65 / 1.65	-9 / +15	-9 / +15	-9 / +15	-9 / +15	-3 / +3	-2 / +2	
	(imp/min)	60	60	30	60	60	60	60	60	
	(kΩ)	1.0 - 2.5	1.6 - 2.0	1.0 - 1.4	1.0 - 1.4	1.0 - 1.4	1.1-1.8 / 1.5-2.1 ¹	2.6 - 3.4	2.6 - 3.4	
	Consumption (μA)	3.20 / 5.80 ¹	1.10	0.80	0.80	1.25	3.20 / 5.80 ¹	3.4 - 4.7	3.4 - 4.7	
	U-mini (V)	1.30	1.30	1.30	1.30	1.30	1.30	2.4	2.4	
	Battery life (month)	30	48	44	44	41 / 48	48	2.4	24	
	MT rate (s)	60	480	960	960	960	960	960	960	
	Calendar Jump (min)	+30 / +210	-5 / +5	-10 / +10	-10 / +10	-10 / +10	-	Digital	Digital	



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	OMEGA	1220/30 ⁴	1250/60	1255 ⁴	1300 ⁴	1510/11/15/16 ⁴	1602	1611	1400	1442
	Omega-ref:	1447007	1447007	1447007	1447018	1447018	1447018	1447022	7221400B4000SET	1447014
	Renata	344	344	344	386	386	386	393	GC920	373
	Voltage (V)	1.55	1.55	1.55	1.55	1.55	1.55	1.55	Acumulator	1.55
	+/- (s/month)								-9 / +15	-9 / +15
	(imp/min)								60	12
	(kΩ)								0.6 - 1.0	1.3 - 1.75
	Consumption (μA)	10.0	10.0	10.0	6.5 13 ¹	14.0	6	7	1.10	1.20
	U-mini (V)								1.20	1.30
	Battery life (month)	12	12	12	12	12	12	12	100 days	42
	MT rate (s)								120	60
	Calendar Jump (min)	-	-	-	-	-	-	-	0 / +180	-

2. History of modifications

DOCUMENT HISTORY		
Date	Made by	Changes Made
13.07.2017	selrom	All the modifications are highlighted in cyan. Adapted following the OMEGA concept.
05.09.2017	selrom	All the modifications are highlighted in cyan.