



Datawell BV
oceanographic instruments



Datawell test location
(near the Dutch coast in the North Sea)

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www.datawell.nl



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Buoys and accessories



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	Directional Waveriders	Part no.
	DWR4 with Acoustic Current Meter (ACM) , stabilized platform accelerometer-based wave measuring system, sea surface temperature measurement, GPS position, 1 Gb datalogger, power switch and LED flashlight. (Remark: solar panel and yellow paint are optional).	
	0.7 m diameter, AISI316 hull BLE: 11 months (15x RC27B)	10307
	0.7 m diameter, CUNIFER10 hull BLE: 11 months (15x RC27B)	10308
	0.9 m diameter, AISI316 hull BLE: 23 months (30x RC27B)	10269
	0.9 m diameter, CUNIFER10 hull BLE: 23 months (30x RC27B)	10298
	DWR4 , stabilized platform accelerometer-based wave measuring system, sea surface temperature measurement, GPS position, 1 Gb datalogger, power switch and LED flashlight. (Remark: solar panel and yellow paint are optional)	
	0.7 m diameter, AISI316 hull BLE: 14 months (15x RC27B)	10309
	0.7 m diameter, CUNIFER10 hull BLE: 14 months (15x RC27B)	10310
	0.9 m diameter, AISI316 hull BLE: 43 months (45x RC27B)	10300
	0.9 m diameter, CUNIFER10 hull BLE: 43 months (45x RC27B)	10301
	DWR-MkIII , stabilized platform accelerometer-based wave measuring system, sea surface temperature measurement, GPS position, ITB (only 0.9m), 1 Gb datalogger, power switch and LED flashlight. (Remark: yellow paint is optional)	
	0.7 m diameter, AISI316 hull BLE: 16 months (15x RC27B)	10081
	0.7 m diameter, CUNIFER10 hull BLE: 16 months (15x RC27B)	10201
	0.9 m diameter, AISI316 hull BLE: 49 months (45x RC27B)	10082
	0.9 m diameter, CUNIFER10 hull BLE: 49 months (45x RC27B)	10202
	DWR-G4 , GPS-based wave measuring system, sea surface temperature measurement, GPS position, 1 Gb datalogger and LED flashlight, (free-floating). (Remark: yellow paint is optional)	
0.4 m diameter AISI316 hull BLE: 1 month (4x RC27G)	10083	
	DWR-G , GPS-based wave measuring system, sea surface temperature measurement, GPS position, ITB, 1 Gb datalogger, power switch and LED flashlight. (Remark: yellow paint is optional)	
	0.7 m diameter, AISI316 hull BLE: 14 months (32x RC27G)	10084
	0.7 m diameter, CUNIFER10 hull BLE: 14 months (32x RC27G)	10198
	0.9 m diameter, AISI316 hull BLE: 28 months (65x RC27G)	10085
	0.9 m diameter, CUNIFER10 hull BLE: 28 months (65x RC27G)	10199

* BLE: Battery Life Expectancy. All buoys are packed in a transport frame and painting is optional.

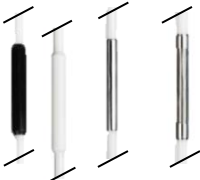






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	Non-directional Waveriders	Part no.
	WR-SG , stabilized platform accelerometer-based wave measuring system, sea surface temperature measurement, GPS position, 1 Gb datalogger, power switch and LED flashlight. (Remark: yellow paint is optional)	
	0.7 m diameter, AISI316 hull BLE: 18 months (13x RC27G)	10169
	0.7 m diameter, CUNIFER10 hull BLE: 18 months (13x RC27G)	10208
	0.9 m diameter, AISI316 hull BLE: 37 months (26x RC27G)	10170
	0.9 m diameter, CUNIFER10 hull BLE: 37 months (26x RC27G)	10209


** BLE: Battery Life Expectancy. All buoys are packed in a transport frame and painting is optional.*

	Buoy options	Part no.
	CAT4 Compact Air Temperature sensor integrated in coated antenna. Measuring height is 2 m above sea surface. Temperature range is -20°C - $+70^{\circ}\text{C}$ - Without HF - Including HF (No need to order a separate HF option, please state frequency when ordering)	10317 10318
	SOLAR POWER SYSTEM Solar panel to be combined with standard batteries (Including Power Storage Pack) (not available for DWR-G4 and WR-SG) - For DWR4 0.9m and DWR-MkIII - For DWR4 0.7m, DWR-G7 and DWR-G9	10188 10255
	RADAR REFLECTOR One set of 2 radar reflectors to improve radar visibility Mounted with sealant (included). Only for MKIII hatchcover (not available for the DWR4 and DWR-G and a hatchcover with Solar System)	10136
	ANTI-SPIN TRIANGLE For DWR4, DWR-MkIII and WR-SG, including mounting plates - For 0.7 m diameter buoy - For 0.9 m diameter buoy	10151 10152
	PAINTING JOB With Brantho-Korrux RAL 1021, colour: Yellow - For 0.7m and 0.9m diameter AISI316 hull - For 0.7m and 0.9m diameter Cunifer hull (upper half) - For DWR-G4	10123 10203 10126




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	Communication options	Part no.
HF HF link 25.5 MHz - 35.5 MHz, maximum range 50 km (35.5 MHz – 45.0 MHz available on request). - For DWR4, DWR-MkIII, DWR-G7, DWR-G9 and WR-SG - For DWR-G4 - For a separate hatchcover Please state frequency when ordering		10177 10118 10119
ARGOS Data transmission and tracking via Argos satellite (not available for WR-SG) - For DWR4, DWR-MkIII, DWR-G7 and DWR-G9 - For DWR-G4		10193 10194
GSM - GSM SMS , data transmission, including desktop modem and software (not available for DWR4 and WR-SG) - GSM INTERNET , data transmission (dial-in or GPRS) including software		10195 10228
IRIDIUM - IRIDIUM INTERNET , data transmission and tracking via Internet (not available for DWR-G4) - IRIDIUM SBD , data transmission and tracking via Short Burst Data (not available for DWR-G4)		10173 10293


Please note that only 1 extra option (Argos, GSM or Iridium) can be installed.

	Mooring Systems	Part no.
Directional Waverider 0.7 m		
17 - 100 m	30 m rubber cord 27 mm diameter, 200 m polypropylene rope 12 mm, 2 PP terminals, 1 float 10 Kg, 1 in-line float 3 Kg, 1 shackle 25 mm mild steel, 2 sinker weights 1 Kg	10106
8 - 17 m	2x 15m rubber cord 27 mm diameter, 200 m polypropylene rope 12 mm, 2 PP terminals, 2 floats 10 Kg, 1 in-line float 3 Kg, 1 shackle 12 mm, 1 shackle 25 mm mild steel, 1 sinker weight 1 Kg	10108
Directional Waverider 0.9 m		
17 - 100 m	30 m rubber cord 35 mm diameter, 200 m polypropylene rope 12 mm, 2 PP terminals, 1 float 10 Kg, 1 in-line float 3 Kg, 1 shackle 25 mm mild steel, 2 sinker weights 1 Kg	10110
8 - 17 m	2x 15m rubber cord 35 mm diameter, 200 m polypropylene rope 12 mm, 2 PP terminals, 2 floats 10 Kg, 1 in-line float 3 Kg, 1 shackle 12 mm, 1 shackle 25 mm mild steel, 1 sinker weight 1 Kg	10112






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	Mooring Systems	Part no.
Non-directional Waverider 0.7m		
8 - 100 m	15 m rubber cord 27 mm diameter, 200 m polypropylene rope 12 mm, 2 PP terminals, 1 float 10 Kg, 1 in-line float 3 Kg, 1 shackle 25 mm mild steel, 2 sinker weights 1 Kg	10261
Non-directional Waverider 0.9m		
8 - 100 m	15 m rubber cord 35 mm diameter, 200 m polypropylene rope 12 mm, 2 PP terminals, 1 float 10 Kg, 1 in-line float 3 Kg, 1 shackle 25 mm mild steel, 2 sinker weights 1 Kg	10115
DWR-G4		
0 - 100 m	20 m Dyneema rope including float 10 Kg and sinker weight 1 Kg, 2 shackles 12 mm, 200 m Dyneema rope, 1 Dyneema terminal, sinker weight 1 Kg	10114






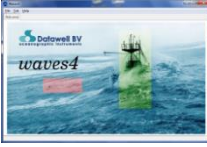
Different depth, strong current (for a DWR-G4 > 1m/s, for all others > 3m/s) or breaking waves, please contact our Sales department.

	Receivers	Part no.
	RX-C - Receiver 100-240 V, tuneable, - including Ethernet connector, no crystals required, Frequency range 25.5 - 35.5 MHz (35.5- 45.0 MHz available on request) Not included: receiving antenna, - 12 V version - 19 inch version	10137 10214 10215
	RX-D - Receiver 100-240 V including crystal (not compatible with DWR4) Not included: receiving antenna, 25 m antenna cable and software - 19 inch version	10138 10264
	BUOY FINDER Portable receiver with display for GPS position transmitted by Waverider. Including headphone connection for audio tracking. Frequency range 25.5 - 35.5 MHz (35.5- 45.0 MHz available on request) Operational 10 hrs with 4 batteries of 1.5 V	10089



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	Antennas	Part no.
	RECEIVING ANTENNA For RX-C and RX-D, 25 m antenna cable (other lengths available on request) $\lambda/4$ omni-directional antenna Kathrein 717.758 with ground-plane radials, output 6 dB, wind rating 80 knots, HF range 50 km.	10066
	RECEIVING ANTENNA + BASE including antenna whip, Designed for marine conditions, wind rating > 100 knots. Alternative receiving antenna for RX-C/RX-D. (HF range: line of sight)	10280
	SHORT RECEIVING ANTENNA + MAGNETIC BASE Including antenna whip and 10 antenna cable. Alternative receiving antenna for Buoy Finder/RX-C/RX-D (HF range: line of sight)	10076
	MAGNETIC ANTENNA BASE incl. 10m antenna cable. Alternative receiving antenna for Buoy Finder (HF range: line of sight)	10050
	ANTENNA SPLITTER 100-240V For filtering, amplifying and splitting the RF buoy signal from the antenna up to 6 RX-C/RX-D receivers. - 19 inch version - 12V version	10067 10265 10285
	ANTENNA SPLITTER CABLE To connect the RX-C/RX-D to the antenna splitter Length 1 m (other lengths on request)	10048
	Software	Part no.
	WAVES4 Software for wave analysis (Windows, Linux) - License	10271



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Motion Sensors



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	Motion sensors	Part no.
	<p>WAVE UNIT</p> <ul style="list-style-type: none"> - measures wave height and wave direction - heave scale accuracy 0.5% of measured value - heave period 1.6 s - 30 s - direction resolution 1.5° - heading error 0.4° - 2° (depending on latitude) typical 0.5° - interface port RS232 - power: < 400 mW - dimensions 410x560 mm - weight approx. 36 kg 	10166
	<p>DWR-G UNIT</p> <ul style="list-style-type: none"> - measures wave height and wave direction - sensor precision 1-2 cm in all directions - heave period 1.6 s - 100 s - direction resolution 1.5° - RS232 interface - power: < 1.7 W - compact dimensions (16 cm diameter x 16 cm height) - power/connection cable 5 m. 	10212
	<p>HIPPY-40 MkII, analog</p> <ul style="list-style-type: none"> - natural period of platform is 40 seconds - pitch/roll scale accuracy better than 0.5 % of measured value - acceleration/heave scale accuracy better than 2 % of measured value - low power: 180 mW 	10094



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Spare Parts



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Spare parts - Hatchcovers		Part no.
	HATCHCOVER Diameter 475 mm including electronic unit with datalogger 1 Gb, Power switch, GPS positioning and GPS antenna (no HF, no flashlight antenna) - For DWR4, - For DWR-MkIII - For WR-SG	10275 10091 10095
	- For DWR-G7 and DWR-G9 For communication options see page 6.	10092








Spare parts - Buoy mooring		Part no.
	RUBBER CORDS - 27 mm diameter / Length 15 m (for 0.7 m buoy) - 27 mm diameter / Length 30 m (for 0.7 m buoy) - 35 mm diameter / Length 15 m (for 0.9 m buoy) - 35 mm diameter / Length 30 m (for 0.9 m buoy)	10039 10041 10040 10042
	POLYPROPYLENE ROPE 12 mm - 200 m - 500 m - 1000 m	10133 10135 10134
	TERMINAL - For Polypropylene rope 12 mm - For Dyneema rope 6 mm	10150 10257
	SHACKLE - 12 mm AISI316 - 16 mm AISI316 - 25 mm, mild steel	10029 10030 10080
	FLOAT - 10 Kg incl. fixings - 3 Kg incl. fixing rope	10086 10087
	ANODES - set of 2 anodes for buoy + fixing materials - set of 2 anodes for buoy - set of fixing materials for buoy anodes - anode for DWR-G4	10052 10051 10049 10289
	SINKER WEIGHT - For Polypropylene rope 12 mm (1 kg) - For Dyneema rope 6 mm (1 kg)	10142 10254



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Spare parts - Buoy mooring		Part no.
	Other parts - CHAIN COUPLING, incl. swivel and 2 shackles 12 mm - STABILIZATION CHAIN DWR-G4 - CELERON BLOK, for chain coupling (for Cunifer hull)	10020 10008 10036


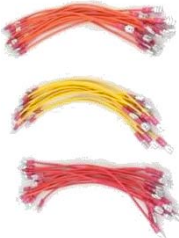



Spare parts - Antennas		Part no.
	FLASHLIGHT ANTENNA Incl. O-ring 37x4 mm and hex. socket screws M6x10,AISI316 (6 ea) - Length 35 cm - HF - Length 195 cm for 26-31 MHz / 32-36 MHz - HF - Length 180 cm for 31-32 MHz - CAT4/HF - Length 195 cm (only to be used with a "CAT4-ready" hatchcover)	10098 10056 10057 10316
	GPS ANTENNA Incl. O-ring 37x4 mm and hex. socket screws M6x10,AISI316 (6 ea), colour yellow	10058
	IRIDIUM ANTENNA Incl. O-ring 37x4 mm and hex. socket screws M6x10,AISI316 (6 ea), colour black	10061
	GSM ANTENNA Incl. O-ring 37x4 mm and hex. socket screws M6x10,AISI316 (6 ea) (Not suitable for DWR-G4)	10060
	GPS ANTENNA FOR THE DWR-G Incl. O-ring 37x4 mm and hex. socket screws M6x10,AISI316 (6 ea)	10059
	ARGOS ANTENNA Incl. ground-plane radials, O-ring 37x4 mm and hex. socket screws M6x10,AISI316 (6 ea), whip length 45 cm. (Not suitable for DWR-G4)	10012
	WHIP FOR ARGOS ANTENNA 450 mm	10001
	HF ANTENNA FOR DWR-G4 Whip length 130 cm	10007
	HF ANTENNA FOR BUOY FINDER Whip length 53 cm	10097



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Spare parts - Antennas		Part no.
	RECEIVING ANTENNA For RX-C and RX-D - $\lambda/4$ omni-directional antenna Kathrein 717.758 with ground-plane radials, output 6 dB, wind rating 80 knots, HF range 50 km.	10062
	- $\lambda/4$ directional antenna Kathrein 717.758 with ground plane radials, 2 reflector radials, mounting set, front to back ratio 9 dB, wind rating 80 knots.	10064




Spare parts - Others		Part no.
	BATTERIES - RC27B, 270 Wh per battery for DWR4, DWR-MKIII (black) - RC27G, 270 Wh per battery for DWR-G (green)	10068 10069
	BATTERY WIRING SET - For 4 Batteries (DWR-G4) 10026 - For 13 Batteries (WR-SG 0.7 m) 10143 - For 15 Batteries (DWR4 0.7 m, DWR-MkIII 0.7 m) 10144 - For 26 Batteries (WR-SG 0.9 m) 10145 - For 30 Batteries (DWR4/ACM 0.9 m) 10277 - For 32 Batteries (DWR-G 0.7m) 10147 - For 45 Batteries (DWR4 0.9 m, DWR-MkIII 0.9 m) 10148 - For 65 Batteries (DWR-G 0.9 m) 10149	
	TRANSMITTER PCB HF For 25.5 MHz - 45.0 MHz including crystal - For DWR MKIII, DWR-G and WR-SG 10128 - For DWR-G4 and DWR-G Unit (Please contact our Sales department) 10011 - For DWR 4 10278	
	CRYSTALS - TRANSMITTER CRYSTAL TYPE WAVEC 10171 - RECEIVER CRYSTAL TYPE WAVEC (For RX-D) 10220	
	ANTENNA CABLE - 25 m with 2 connectors 82/61 10024 - 50 m with 2 connectors 82/61 10074 - Alternative lengths up to 200m available on request	
	RUBBER FENDER - For 0.4 m hull 10333 - For 0.7 m hull 10032 - For 0.9 m hull 10028	



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Spare parts - Others		Part no.
	SET OF 3 MOUNTING PLATES FOR TRIANGLE - For triangle 0.7 incl. M8 bolts, rings and nuts (6ea) - For triangle 0.9 incl. M8 bolts, rings and nuts (6ea)	10153 10154
	O-RINGS - O-ring 25x3 mm for transducer and power switch cover - O-ring 37x4 mm for Flashlight /GPS/GSM/satellite antenna / LED Flashlight - O-ring 164.7x3.53 mm for DWR-G4 hatchcover - O-ring 425x4 mm for hatchcover diameter 475 mm	10314 10117 10120 10122
	DRYING AGENT - For 0.7m/0.9m buoys - For DWR-G4	10267 10268
	OTHER PARTS - Transducer ACM, Including 2 O-rings and grease (For DWR4/ACM) - Compact flash card 1 Gb Industrial Grade - Paint, 750 ml Brantho-Korrux RAL 1021, colour: Yellow, painting materials - Set of 3 anodes for triangle - Power switch cover - Hexagon socket screw M6x10, AISI316	10276 10103 10127 10053 10274 10096


Spare parts - Packaging		Part no.
	TRANSPORT FRAME - For 0.4 m buoy - For 0.7 m buoy - For 0.9 m buoy	10101 10155 10156
	PELI CASE For DWR-G4 - With a buoy (instead of a transport frame) - As a spare part	10013A 10013B
	FLIGHT CASE For Hatchcover	10313



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Spare parts - Packaging		Part no.
	PACKAGING TUBE ABS tube for Antenna. Length: 220 cm.	10319

Desk Top Waverider		Part no.
	Replica of the Directional Waverider MKIII Height: 165 mm In case of a special occasion, please contact us.	10284



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Special Assemblies



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	Special Assemblies - Rubber cords	Part no.
RUBBER CORD 27 mm diameter - 15 m - With 1 standard and 1 swivel terminal - With 2 standard terminals and safety line Propylene 12 mm - With 2 standard terminals and safety line Dyneema 6 mm - With 2 standard terminals and safety line Dyneema 10 mm		10311 10043 10281 10328
RUBBER CORD 27 mm diameter - 30 m - With 1 standard and 1 swivel terminal - With 2 standard terminals and safety line Propylene 12 mm - With 2 standard terminals and safety line Dyneema 6 mm - With 2 standard terminals and safety line Dyneema 10 mm		10312 10045 10210 10330
RUBBER CORD 35 mm diameter - 15 m - With 1 standard and 1 swivel terminal - With 2 standard terminals and safety line Propylene 12 mm - With 2 standard terminals and safety line Dyneema 6 mm - With 2 standard terminals and safety line Dyneema 10 mm		10305 10044 10282 10329
RUBBER CORD 35 mm diameter - 30 m - With 1 standard and 1 swivel terminal - With 2 standard terminals and safety line Propylene 12 mm - With 2 standard terminals and safety line Dyneema 6 mm - With 2 standard terminals and safety line Dyneema 10 mm		10306 10046 10211 10302
RUBBER CORD 50 mm diameter - 15 m - With 2 standard terminals - With 2 standard terminals and safety line Dyneema 10 mm - With 2 standard terminals and safety line Dyneema 16 mm		10047 10295 10315
RUBBER CORD 60 Shore - A 35 mm diameter - 15 m - With 2 standard terminals - With 1 standard and 1 swivel terminal - With 2 standard terminals and safety line Propylene 12 mm - With 2 standard terminals and safety line Dyneema 6 mm - With 2 standard terminals and safety line Dyneema 10 mm		10320 10326 10322 10324 10331
RUBBER CORD 60 Shore A - 35 mm diameter - 30 m - With 2 standard terminals - With 1 standard and 1 swivel terminal - With 2 standard terminals and safety line Propylene 12 mm - With 2 standard terminals and safety line Dyneema 6 mm - With 2 standard terminals and safety line Dyneema 10 mm		10321 10327 10323 10325 10332



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	Special Assemblies - Mooring Systems (incl. safety line)	Part no.
Directional Waverider 0.7 m		
17 - 100 m	30 m rubber cord 27 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2 PP terminals, 1 float 10 Kg, 1 in-line float 3 Kg, 1 shackle 25 mm mild steel, 2 sinker weights 1 Kg	10107
8 - 17 m	2x 15m rubber cord 27 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2 PP terminals, 2 floats 10 Kg, 1 in-line float 3 Kg, 1 shackle 12 mm, 1 shackle 25 mm mild steel, 1 sinker weight 1 Kg	10109
Directional Waverider 0.9 m		
17 - 100 m	30 m rubber cord 35 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2 PP terminals, 1 float 10 Kg, 1 in-line float 3 Kg, 1 shackle 25 mm mild steel, 2 sinker weights 1 Kg	10111
8 - 17 m	2x 15m rubber cord 35 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2 PP terminals, 2 floats 10 Kg, 1 in-line float 3 Kg, 1 shackle 12 mm, 1 shackle 25 mm mild steel, 1 sinker weight 1 Kg	10113
Non-directional Waverider 0.7m		
8 - 100 m	15 m rubber cord 27 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2 PP terminals, 1 float 10 Kg, 1 in-line float 3 Kg, 1 shackle 25 mm mild steel, 2 sinker weights 1 Kg	10262
Non-directional Waverider 0.9m		
8 - 100 m	15 m rubber cord 35 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2 PP terminals, 1 float 10 Kg, 1 in-line float 3 Kg, 1 shackle 25 mm mild steel, 2 sinker weights 1 Kg	10116

	Special Assemblies - Ropes	Part no.
POLYPROPYLENE ROPE 12 mm - Variable length - terminated with thimbles		10102
DYNEEMA ROPE 6 mm - Variable length - terminated with thimbles		10334



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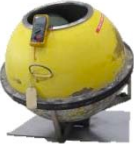
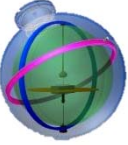



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Service



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	Service	Part no.
	INSPECTION AND CALIBRATION - DWR4/ACM - DWR-MKIII; DWR4 - DWR-G - WR-SG - Wave Unit	10189 10189 10189 10189 10189
	REPLACEMENT SENSOR / PARTS - Hippy-40 sensor (DWR-MKIII; DWR4) - Horizontal accelerometer (DWR-MKIII; DWR4) - Compass (DWR-MKIII; DWR4) - Vertical Accelerometer (WR-SG)	10189 10189 10189 10189
	REPLACEMENT PCB'S - PCB Horizontal accelerometer - PCB Hippy-40 sensor - PCB compass - PCB FB2 Main (P183) - PCB FB2 ADC (P159.) - PCB FB2 Compact Flash (P184)	10189 10189 10189 10189 10189 10189
	OTHER SERVICES - Painting job for used Waverider(for 0.7m and 0.9m diameter hull) - Painting job for used DWR-G4 - Replacement Antenna cable HF/GPS/OPT - Installing Intelligent Test Box (ITB) for existing DWR-9, DWR-G7 and DWR-G9 buoys (including battery cable replacement). To enable each battery string to be sequentially and separately discharged.	10189 10189 10189 10189
	RENTAL OF EQUIPEMENT All instruments can be rented. Rental rate is 8% of the list price. Minimum rental period is one month. Please contact Service- or Sales department for further information..	10018