

Datawell BV

Product catalogue

January 2025



Datawell BV
Voltastraat 3
1704 RP Heerhugowaard
The Netherlands

+31 72 534 52 98
sales@datawell.nl
www.datawell.nl

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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, 2 Gb datalogger, power switch, painted yellow.		
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, 2 Gb datalogger, power switch, painted yellow.		
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), 2 Gb datalogger, power switch, painted yellow.		
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, 2 Gb datalogger, painted yellow and LED flashlight.		
0.4 m diameter, AISI316 hull	BLE: 3 months (4x RC27G)	10083

DWR-G GPS-based wave measuring system, sea surface temperature measurement, GPS position, ITB, 2 Gb datalogger, power switch, painted yellow.		
0.7 m diameter, AISI316 hull	BLE: 30 months (32x RC27G)	10084
0.7 m diameter, CUNIFER10 hull	BLE: 30 months (32x RC27G)	10198
0.9 m diameter, AISI316 hull	BLE: 60 months (65x RC27G)	10085
0.9 m diameter, CUNIFER10 hull	BLE: 60 months (65x RC27G)	10199



Non-Directional Waveriders

		Part no.
WR-SG stabilized platform accelerometer-based wave measuring system, sea surface temperature measurement, GPS position, 2 Gb datalogger, power switch, painted yellow.		
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

Motion Sensors

		Part no.
Wave Unit stabilized platform accelerometer-based wave measuring system (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°, typical 0.5°, RS232, power < 400 mW, dimensions 410 mm x 410 mm x 560 mm, weight approximately 36 kg, incl. 5 m power cable.		10166
DWR-G Unit GPS-based wave measuring system (wave height and wave direction), sensor precision 1 cm – 2 cm in all directions, heave period 1.6 s – 100 s, direction resolution 1.5°, RS232 interface, power 1.0 W, dimensions 200 mm x 200 mm x 160 mm, incl. 5 m power cable.		10212



Buoy Options

The following buoy options are not available for DWR-G4.

	Part no.
CAT4 Compact Air Temperature sensor integrated in coated antenna. Measuring height is 2 m above sea surface. Temperature range is -20°C to +70°C.	
Without HF communication	10317
Including HF communication	10318
Automatic Identification System (AIS) Allows the buoy to broadcast its location to its surroundings, increasing the visibility to passing vessels. Integrated in the regular HF flashlight antenna (with or without CAT4). Not available for DWR-G.	10351
Solar Power System Solar panel to be combined with standard batteries (including Power Storage Pack).	10255
Radar Reflector Set of two radar reflectors to improve radar visibility. Mounted with adhesive (included).	10136
Not available in combination with the Solar Power System.	
Anti-spin Triangle For DWR4 (/ACM), DWR-MkIII and WR-SG, including mounting plates.	
For 0.7 m diameter buoy	10151
For 0.9 m diameter buoy	10152
Buoy Not Painted Buoys are painted with Brantho-Korrux RAL 1201 by default. If painting is not required, the price of painting will be deducted from the price of the buoy.	
For 0.7 m and 0.9 m diameter AISI316 hull	10123
For 0.7 m and 0.9 m diameter Cunifer hull (upper half)	10203

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 HF antenna included.	10177
For DWR-G4 HF antenna included.	10118
For separate hatchcover	10119
Please state frequency when ordering.	

	Part no.
Argos Data transmission and tracking via Argos satellite (not available for WR-SG)	
For DWR4, DWR-MkIII, DWR-G7, DWR-G9 and WR-SG	10193
For DWR-G4	10194

GSM	
GSM Internet - data transmission and tracking via Internet (TCP/IP)	10228
GSM SMS - data transmission, including desktop modem and software (not available for DWR4 and WR-SG)	10195

Iridium	
Iridium SBD - Data transmission and tracking via Short Burst Data	
For DWR4, DWR-MkIII, DWR-G7, DWR-G9 and WR-SG	10293
For DWR-G4	10335
Iridium Internet - Data transmission and tracking via Internet (TCP/IP) (not available for DWR-G4)	10173

Receivers

	Part no.
RX-C4 Tuneable receiver for HF communication, including Ethernet connector, RS-232 port, no crystal required. Frequency range 25.5 MHz - 35.5 MHz (35.5 MHz - 45.0 MHz version available on request).	
100 V - 240 V (desktop version)	10137
12 V (desktop version)	10214
100 V - 240 V (19-inch version)	10215
12 V (19-inch version)	10352

Buoy finder Portable receiver with display for GPS position transmitted by Waveriders. Including headphone connection for audio tracking. Frequency range 25.5 - 35.5 MHz (35.5 MHz - 45.0 MHz available on request). Operational 10 hours with 4x 1.5 V batteries.	10089
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Software

	Part no.
Waves5 Software for data acquisition, data presentation and post-processing. (Windows) For DWR4 (HF, Iridium & GSM Internet), DWR-MkIII, WR-SG and Wave Unit.	10336
No license required. Free download from our website www.datawell.nl .	
Waves4 Software for wave analysis. (Windows)	10271
License required, contact our sales department for a free license. Free download from our website www.datawell.nl .	

Receiving Antennas

	Part no.
Omni-directional receiving antenna For RX-C and RX-D, $\lambda/4$ omni-directional antenna Schomandl 717.758 with ground-plane radials, output 6 dB, wind rating 80 knots, HF range approximately 50 km.	10062
Omni-directional receiving antenna incl. antenna cable Above item including 25 m antenna cable (other lengths available on request).	10066
Directional receiving antenna For RX-C and RX-D, $\lambda/4$ directional antenna Schomandl 717.758 with ground-plane radials, two reflector radials, mounting set, front to back ratio 9 dB, wind rating 80 knots, for where man-made noise is a problem and has to be suppressed.	10064
Receiving antenna with 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 with magnetic base Including antenna whip and 10 m antenna cable. Alternative receiving antenna for Buoy Finder/RX-C/RX-D. (HF range: line of sight)	10076
Magnetic base incl. 10 m antenna cable	10050
Antenna splitter For filtering, amplifying and splitting the HF buoy signal from the antenna up to six RX-C/RX-D receivers. Including 2x antenna splitter cable.	
100 V - 240 V (desktop version)	10067
12 V (desktop version)	10285
100 V - 240 V (19-inch version)	10265
12 V (19-inch version)	10363
Antenna splitter cable to connect a RX-C/RX-D. Length 1 m (other lengths available on request).	10048

Mooring Systems

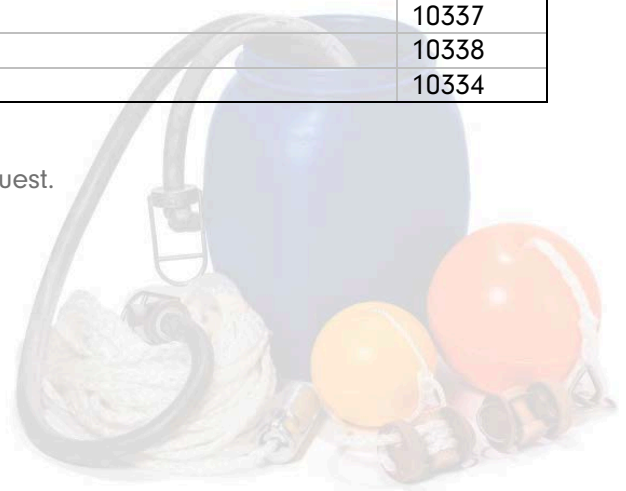
		Part no.
Directional Waverider 0.7 m excl. safety line		
17 m – 100 m water depth	30 m rubber cord 27 mm diameter, 200 m polypropylene rope 12 mm, 2x PP terminals, float 10 kg, in-line float 3 kg, shackle 1-inch mild steel, 2x sinker weights 1 kg	10106
8 m – 17 m water depth	2x 15 m rubber cord 27 mm diameter, 200 m polypropylene rope 12 mm, 2x PP terminals, 2x floats 10 kg, in-line float 3 kg, shackle 12 mm, shackle 1-inch mild steel, sinker weight 1 kg	10108
Directional Waverider 0.7 m incl. safety line		
17 m – 100 m water depth	30 m rubber cord 27 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2x PP terminals, float 10 kg, in-line float 3 kg, shackle 1-inch mild steel, 2x sinker weights 1 kg	10107
8 m – 17 m water depth	2x 15 m rubber cord 27 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2x PP terminals, 2x floats 10 kg, in-line float 3 kg, shackle 12 mm, shackle 1-inch mild steel, sinker weight 1 kg	10109
Directional Waverider 0.9 m excl. safety line		
17 m – 100 m water depth	30 m rubber cord 35 mm diameter, 200 m polypropylene rope 12 mm, 2x PP terminals, float 10 kg, in-line float 3 kg, shackle 1-inch mild steel, 2x sinker weights 1 kg	10110
8 m – 17 m water depth	2x 15 m rubber cord 35 mm diameter, 200 m polypropylene rope 12 mm, 2x PP terminals, 2x floats 10 kg, in-line float 3 kg, shackle 12 mm, shackle 1-inch mild steel, sinker weight 1 kg	10112
Directional Waverider 0.9 m incl. safety line		
17 m – 100 m water depth	30 m rubber cord 35 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2x PP terminals, float 10 kg, in-line float 3 kg, shackle 1-inch mild steel, 2x sinker weights 1 kg	10111
8 m – 17 m water depth	2x 15 m rubber cord 35 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2x PP terminals, 2x floats 10 kg, in-line float 3 kg, shackle 12 mm, shackle 1-inch mild steel, sinker weight 1 kg	10113
Non-directional Waverider 0.7 m excl. safety line		
8 m – 100 m water depth	15 m rubber cord 27 mm diameter, 200 m polypropylene rope 12 mm, 2x PP terminals, float 10 kg, in-line float 3 kg, shackle 1-inch mild steel, 2x sinker weights 1 kg	10261

		Part no.
Non-directional Waverider 0.7 m incl. safety line		
8 m – 100 m water depth	15 m rubber cord 27 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2x PP terminals, float 10 kg, in-line float 3 kg, shackle 1-inch mild steel, 2x sinker weights 1 kg	10262
Non-directional Waverider 0.9 m excl. safety line		
8 m – 100 m water depth	15 m rubber cord 35 mm diameter, 200 m polypropylene rope 12 mm, 2x PP terminals, float 10 kg, in-line float 3 kg, shackle 1-inch mild steel, 2x sinker weights 1 kg	10115
Non-directional Waverider 0.9 m incl. safety line		
8 m – 100 m water depth	15 m rubber cord 35 mm diameter including safety line polypropylene 12 mm, 200 m polypropylene rope 12 mm, 2x PP terminals, float 10 kg, in-line float 3 kg, shackle 1-inch mild steel, 2x sinker weights 1 kg	10116
DWR-G4		
0 m – 100 m water depth	20 m Dyneema rope including float 10 kg and sinker weight 1 kg, 2x shackles 12 mm, 200 m Dyneema rope, Dyneema terminal, sinker weight 1 kg, shackle 1-inch mild steel	10114

Ropes

		Part no.
Polypropylene rope 12 mm diameter		
200 m length		10133
500 m length		10135
1000 m length		10134
Variable length, terminated with thimbles		10102
Dyneema rope 6 mm diameter		
200 m length		10337
1000 mm length		10338
Variable length, terminated with thimbles		10334

Thimbles can be added for EUR115,- per side on request.



Rubber Cords

	Part no.
Rubber cord 45 Shore A – 27 mm diameter – 15 m length	
With two standard terminals	10039
With one standard and one swivel terminal	10311
With two standard terminals and safety line (polypropylene 12 mm)	10043
With two standard terminals and safety line (Dyneema 6 mm)	10281
With two standard terminals and safety line (Dyneema 10 mm)	10328

Rubber cord 45 Shore A – 27 mm diameter – 30 m length	
With two standard terminals	10041
With one standard and one swivel terminal	10312
With two standard terminals and safety line (polypropylene 12 mm)	10045
With two standard terminals and safety line (Dyneema 6 mm)	10210
With two standard terminals and safety line (Dyneema 10 mm)	10330

Rubber cord 45 Shore A – 35 mm diameter – 15 m length	
With two standard terminals	10040
With one standard and one swivel terminal	10305
With two standard terminals and safety line (polypropylene 12 mm)	10044
With two standard terminals and safety line (Dyneema 6 mm)	10282
With two standard terminals and safety line (Dyneema 10 mm)	10329

Rubber cord 45 Shore A – 35 mm diameter – 30 m length	
With two standard terminals	10042
With one standard and one swivel terminal	10306
With two standard terminals and safety line (polypropylene 12 mm)	10046
With two standard terminals and safety line (Dyneema 6 mm)	10211
With two standard terminals and safety line (Dyneema 10 mm)	10302

Rubber cord 60 Shore A – 35 mm diameter – 15 m length	
With two standard terminals	10320
With one standard and one swivel terminal	10326
With two standard terminals and safety line (polypropylene 12 mm)	10322
With two standard terminals and safety line (Dyneema 6 mm)	10325
With two standard terminals and safety line (Dyneema 10 mm)	10331

Rubber cord 60 Shore A – 35 mm diameter – 30 m length	
With two standard terminals	10321
With one standard and one swivel terminal	10327
With two standard terminals and safety line (polypropylene 12 mm)	10323
With two standard terminals and safety line (Dyneema 6 mm)	10324
With two standard terminals and safety line (Dyneema 10 mm)	10332

Variable lengths are available for all rubber cords on request.

Any rubber cord with safety line can also be equipped with a swivel terminal.

	Part no.
Rubber cord 60 Shore A – 50 mm diameter – 15 m length	
With two standard terminals	10047
With two standard terminals and safety line (Dyneema 10 mm)	10295
With two standard terminals and safety line (Dyneema 16 mm)	10315
With two standard terminals and safety line (Nylon 20 mm)	10340

Variable lengths are available for all rubber cords on request.

Any rubber cord with safety line can also be equipped with a swivel terminal.

Mooring Components

	Part no.
Terminal	
For polypropylene rope 12 mm	10150
For Dyneema rope 6 mm	10257

Shackle	
12 mm (AISI316)	10029
16 mm (AISI316)	10030
1-inch (mild steel)	10080

Float	
20 kg incl. fixings	10346
10 kg incl. fixings	10086
3 kg incl. fixing rope	10087

Sinker weight	
For polypropylene rope 12 mm (1 kg)	10142
For Dyneema rope 6 mm (1 kg)	10254

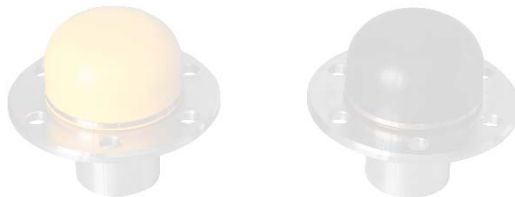
Other parts	
Chain coupling 16 mm incl. swivel and two shackles 12 mm	10020
Stabilization chain for DWR-G4	10008
Celeron block for CUNIFER10 hull (chain coupling 20 mm, old design)	10036
Celeron block for CUNIFER10 hull (chain coupling 16 mm, new design)	10002

Hatchcovers

	Part no.
Hatchcover Diameter 475 mm including electronic unit with datalogger 2 Gb, power switch, GPS position and GPS antenna, packaged in a flight case.	
For DWR4	10275
For DWR-MkIII	10091
For WR-SG	10095
For DWR-G7 and DWR-G9	10092

Antennas

	Part no.
Flashlight antenna incl. o-ring for antenna port and fixing materials.	
Without HF, length 35 cm	10098
With HF, for frequencies 26 MHz to 31 MHz and 32 MHz to 36 MHz, length 195 cm	10056
With HF, for frequencies 31 MHz to 32 MHz, length 180 cm	10057
With CAT4, with/without HF, length 195 cm	10316
GPS antenna incl. o-ring for antenna port and fixing materials. Colour: yellow.	10058
Iridium antenna incl. o-ring for antenna port and fixing materials. Colour: black.	10061
GSM antenna incl. o-ring for antenna port and fixing materials. Not suitable for DWR-G4.	10060
GPS antenna for DWR-G incl. o-ring for antenna port and fixing materials.	10059
Argos antenna incl. ground-plane radials, o-ring for antenna port and fixing materials. Whip length 45 cm. Not suitable for DWR-G4.	10012
Whip for Argos antenna (45 cm)	10001



Spare Parts

	Part no.
Anodes	
Set of two anodes for buoy incl. fixing materials	10052
Set of two anodes for buoy	10051
Set of fixing materials for buoy anodes	10049
Anode for DWR-G4	10289
Set of three anodes for triangle	10053

Batteries	
RC27B, 270 Wh per battery (non-magnetic, for DWR4 and DWR-MkIII)	10068
RC27G, 270 Wh per battery (magnetic, for DWR-G and WR-SG)	10069

Battery wiring sets	
For 4 batteries (DWR-G4)	10026
For 13 batteries (WR-SG 0.7 m diameter)	10143
For 15 batteries (DWR4 and DWR-MkIII 0.7 m diameter)	10144
For 26 batteries (WR-SG 0.9 m diameter)	10145
For 30 batteries (DWR4 /ACM 0.9 m diameter)	10277
For 32 batteries (DWR-G 0.7 m diameter)	10147
For 45 batteries (DWR4 and DWR-MkIII 0.9 m diameter)	10148
For 65 batteries (DWR-G 0.9 m diameter)	10149

Transmitter PCB (HF)	
For 25.5 MHz to 45.0 MHz, incl. crystal	
For DWR-MkIII, DWR-G and WR-SG (HXV)	10128
For DWR-G4 and DWR-G Unit (HXV)	10011
For DWR4 (HVA)	10278

CAT4 Transmitter PCB (HF)	
For 25.5 MHz to 45.0 MHz, incl. crystal	
For DWR-MkIII, DWR-G and WR-SG (HXV)	10347
For DWR4 (HVA)	10348

Crystals	
Transmitter crystal type WAVEC	10171
Receiver crystal type WAVEC	10220

O-rings	
O-ring for transducer and power switch cover	10314
O-ring for antenna port	10117
O-ring DWR-G4 hatchcover	10120
O-ring for 475 mm diameter hatchcover	10122
Grease for o-ring	10350

	Part no.
Drying agent	
For 0.7 m and 0.9 m diameter buoys	10267
For DWR-G4	10268
For electronics	10341

Rubber fender	
For 0.4 m diameter hull	10333
For 0.7 m diameter hull	10032
For 0.9 m diameter hull	10028

Set of three mounting plates for triangle	
For 0.7 m diameter buoys, incl. fixing materials	10153
For 0.9 m diameter buoys, incl. fixing materials	10154

Fixing materials	
Hexagon socket screw M6x10 (AISI316)	10096
Set of split pins 2.0x16 DIN94 A4/316 (100 pieces) for use with polypropylene terminals	10343
Set of split pins 2.0x32 DIN94 A4/316 (100 pieces) for use with 12 mm shackles and celeron block	10344
Set of split pins 3.2x32 DIN94 A4/316 (100 pieces) for use with 16 mm shackles	10345

Cable for receiving antenna	
25 m with two connectors 82/61	10024
50 m with two connectors 82/61	10074
Alternative lengths up to 200 m available on request	

Various cables	
Antenna cable HF	10279A
Antenna cable GPS	10279B
Antenna cable OPT	10279C

Replacement service part kits As already included with new instruments	
For DWR-G 40 cm	10356
Default	10357
For DWR4/ACM 70 cm	10358
For DWR4/ACM 90 cm	10359
Default with CAT4	10360
For DWR4/ACM 70 cm with CAT4	10361
For DWR4/ACM 90 cm with CAT4	10362

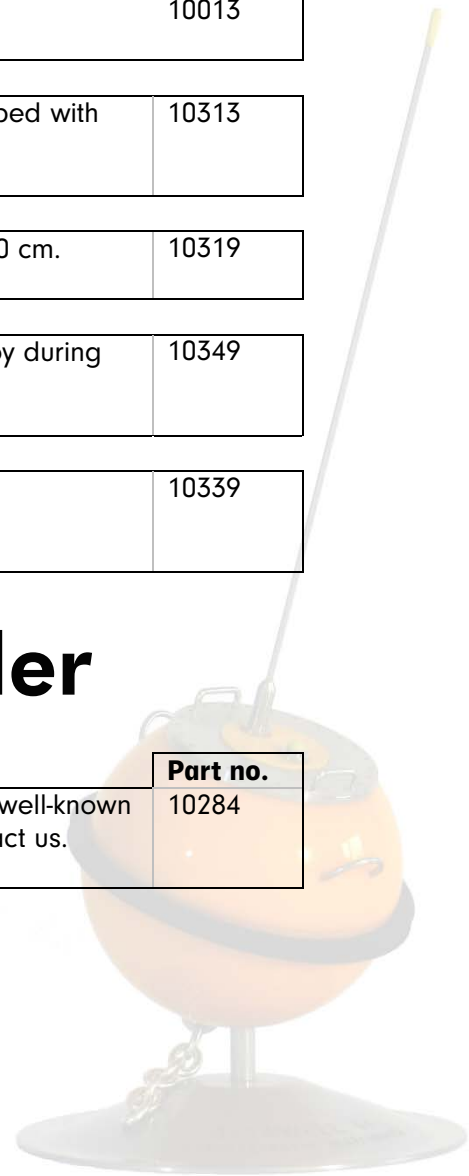
	Part no.
Other parts	
Transducer for DWR /ACM, incl. two o-rings and grease	10276
Compact flash card (2 Gb, industrial grade)	10103
Set of two handles for hatchcover	10342
Power switch cover	10274
Paint (colour: yellow, RAL 1021), 750 ml of Brantho-Korrux	10127
Bottle of sensor fluid	10355
Set of rubber grommets (standard, 100 pieces)	10353
Set of rubber grommets (small, 100 pieces)	10354

Packaging

	Part no.
Transport frame	
For 0.7 m diameter buoy	10155
For 0.9 m diameter buoy	10156
Peli case For DWR-G4 buoy	10013
Flight case For a single hatchcover (not suitable for hatchcovers equipped with radar reflectors and DWR-G4 hatchcovers)	10313
Packaging tube ABS packaging tube for receiving antenna. Length: 220 cm.	10319
Plastic cover for buoy hatch Plastic cover to protect internals of a buoy during transport	10349
Blind cover for antenna port Metal cover to protect antenna port of a hatchcover during transport	10339

Desktop Waverider

	Part no.
Replica of the Directional Waverider MkIII A miniature version of the well-known DWR-MkIII. Height: 165 mm. In case of a special occasion, please contact us.	10284



Service

	Part no.
Inspection and calibration	
Of a DWR4/ACM	10189
Of a DWR-MkIII or DWR4	10189
Of a DWR-G	10189
Of a WR-SG	10189
Of a Wave Unit	10189
Of a DWR-G Unit	10189
Of an RX-C	10189

Replacement sensor and parts thereof	
Hippy-40 sensor (DWR-MkIII; DWR4)	10189
Horizontal accelerometer (DWR-MkIII; DWR4)	10189
Compass (DWR-MkIII; DWR4)	10189
Vertical accelerometer (WR-SG)	10189
Sea Surface Temperature sensor (DWR4)	10189

Replacement PCB's	
PCB Horizontal accelerometer	10189
PCB Hippy-40 sensor	10189
PCB Compass	10189
PCB FB2 Main (P245)	10189
PCB FB2 AIS (P246)	10189
PCB FB2 DWR4 ACM (P212)	10189
PCB FB2 ADC (P159)	10189
PCB FB2 HMM (P210)	10189
PCB FB2 Compact Flash (P184)	10189
PCB FB2 GPS wave (P253)	10189
PCB GPS wave (P254)	10189
PCB Iridium Internet (P225)	10189
PCB Iridium SBD (P227)	10189
PCB GSM Internet (P247)	10189
PCB Argos (P200)	10189

Other services	
Painting job for a used Waverider (0.7 m and 0.9m diameter buoys)	10189
Painting job for a used DWR-G4	10189
Installation of an Intelligent Test Box (ITB) for existing DWR-9, DWR-G7 and DWR-G9, including battery cable replacement, to enable each battery string to be sequentially and separately discharged.	10189