

Recommended Retail Pricelist 2012








SKIPPER

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Retail Pricelist 2012

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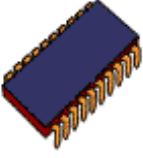

NAVIGATION ECHO SOUNDERS

Product	Reg. no	Description	
<p>SKIPPER GDS101 Navigation Echo Sounder colour LCD Triple freq./Single channel</p> 	<p>EN101C-SA</p> 	<p>Channel Frequencies Power supply Transmitter power Display Input Output Printer Printer connection Memory Dimensions H/W/D Weight Certificates</p>	<p>Single 38, 50 and 200 kHz 20-32 VDC/115-230 VAC Adjustable up to 1.0 kW 10.4" colour LCD NMEA 0183, Nav data NMEA 0183, VGA External printer 25 pin DSUB 24 hours 345/320/171 mm 10 kg Wheelmark</p> <p>Retail price (NOK) 37 100,-</p>
<p>SKIPPER GDS102 Navigation Echo Sounder colour LCD Multi freq./Dual channel</p> 	<p>EN102C</p> 	<p>Channel Frequencies Power supply Transmitter power Display Input Output Printer Memory Dimensions H/W/D Weight Certificates</p>	<p>Dual 10-50 and 50-265 kHz 20-32 VDC/115-230 VAC Adjustable up to 2.0 kW 10.4" colour LCD NMEA 0183, Nav data NMEA 0183, VGA External printer 24 hours 345/320/171 mm 10 kg Wheelmark</p> <p>Retail price (NOK) 45 000,-</p>
<p>SKIPPER GDS102S Special Survey Echo sounder colour LCD Multi freq./Dual channel</p> 	<p>EN102S</p> <p>NB!! NON WHEELMARKED</p>	<p>Channel Frequencies Power supply Transmitter power Display Input Output Printer Memory Dimensions H/W/D Weight Retail price (NOK)</p>	<p>Dual 10-50 and 50-265 kHz 20-32 VDC/115-230 VAC Adjustable up to 2.0 kW 10.4" colour LCD NMEA 0183, Nav data NMEA 0183, VGA External printer 24 hours 345/320/171 mm 10 kg To be agreed, depend on software facilities.</p>









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ACCESSORIES FOR NAVIGATION SOUNDERS

Product	Reg. no	Description	
Printer (EPSON LQ300) for GDS101/102	EN104	Dot matrix printer	Continuous paper
		Retail price (NOK)	4 800,-
Printer cable 5 m instead of 3 m	ZZK-01051	Retail price (NOK)	150,-
Printer cable 10 m instead of 3 m	ZZK-01047	Retail price (NOK)	300,-
Console Mounting brackets for GDS, GDF & ED series EML224 & DL850	ZOA-01042 (set of two)	For Cabinet	Console mounting
		Retail price (NOK)	360,-
Mounting bracket for GDS, GDF & ED series	ZAA-01131	For Cabinet and screen	Table or wall mounting 0-45° tilt
		Retail price (NOK)	1 250,-

Product	Reg. no	Description	
	Contact SKIPPER for part number. THE PRODUCT WILL NOT BE WHEELMARKED WHEN UPGRADING TO THIS SOFTWARE!	Additional functions for GDS101 Retail price (NOK)	-Ping control -Adjustable sound speed -Automatic range 5 250,-
	Contact SKIPPER for part number. THE PRODUCT WILL NOT BE WHEELMARKED WHEN UPGRADING TO THIS SOFTWARE!	Additional functions for GDS102 Retail price (NOK)	-Ping control -Adjustable sound speed - Reduced output power 5 250,-
Frequency modification for GDS101	ENFREQMOD	Mod from 38 kHz to: Mod from 200 kHz to: Retail price (NOK)	24, 28, 30, 33 & 70 kHz 100 kHz 1 765,-
Software update GDS101 (for I/O board ver B)	ENSWUPDTB21	Retail price (NOK)	750,-
Software update GDS101 (for I/O board ver D)	ENSWUPDTDX	Retail price (NOK)	750,-
Individual system approval from Russian Maritime Register of Shipping (GDS101/GDS102)	APP-RMRS	Retail price (NOK)	2 500,-
Individual system approval from China Classification Society (GDS101/GDS102)	APP-CCS	Retail price (NOK)	3 000,-

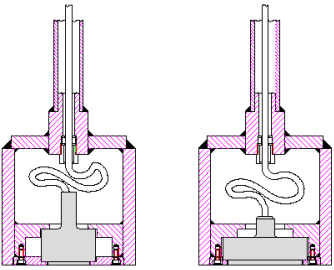
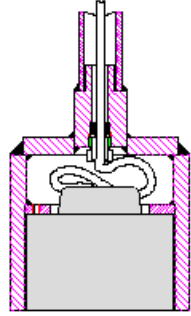
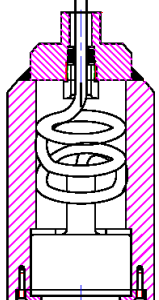
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Product	Reg. no	Description	
Transducer selector 	ENS518 	Transducer selector for Dimensions H/W Certificate Retail price (NOK)	2 transducers 96/96 mm Yes, in SKIPPER system 1 313,-
Depth Indicator SKIPPER IR301 	ENIR301-SA 	Power supply Input Dimensions H/W Certificate Mounting IP Protection Retail price (NOK)	24 VDC NMEA 0183 144/144 mm Yes, in SKIPPER system Bracket or console IP-56 5 054,-
SKIPPER External dimmer 	IR30DIM 	Remote dimmer control for Dimensions H/W Certificate Retail price (NOK)	SKIPPER IR301 96/96 mm Yes, in SKIPPER system 1 164,-
Remote control 	ENRE	For Retail price (NOK)	SKIPPER GDF201, GDS101, GDS102 & GDS102S 2 250,-
DIN connection terminal for NMEA out signal 	NMEA-DIN	For Cable length Retail price (NOK)	GDS101, GDS102 EML224, DL850 3 m 750,-

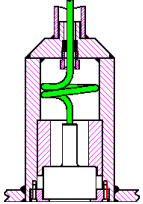
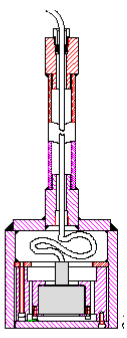
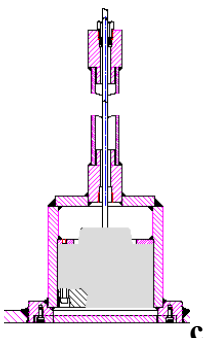
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Product	Reg. no	Description	
Certificate of origin stamped by SKIPPER (GDS101/GDS102)	APP-SKIPPER	Retail price (NOK)	500,-
Certificate of origin stamped by Chamber of Commerce (GDS101/GDS102)	APP-COC	Retail price (NOK)	1 500,-

TANKS FOR NAVIGATION ECHO SOUNDERS

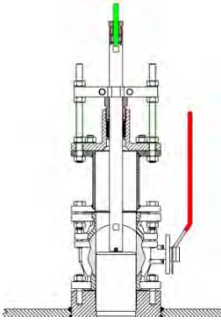
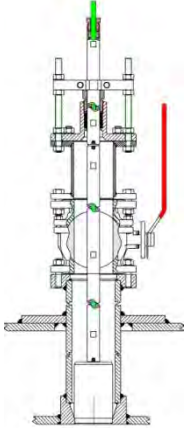
Product	Reg. no	Description	
Transducer Tank 	ETNST	For transducers Material Certificates Weight Retail price (NOK)	ETN050T(XT) ETN200T(XT) Steel, ST.52.3N DNV and GL approved LRS, ABS and BV on request 30 kg 7 980,-
Transducer Tank combo 	ETNSTCLF ETNSTC	For transducers For transducer Material Certificates Weight Retail price (NOK)	ETN024T, ETN038T ETN050T(XT) & ETN200T(XT) Steel, ST.52.3N DNV and GL approved LRS, ABS and BV on request 35 kg 9 377,-
Transducer Tank aluminium 	ETNAL	For transducers Material Certificates Weight Retail price (NOK)	ETN050T(XT) ETN200ST(SXT) Aluminium, DIN/1725/1 Alloy 6082 Subject to local approval 5 kg 7 980,-

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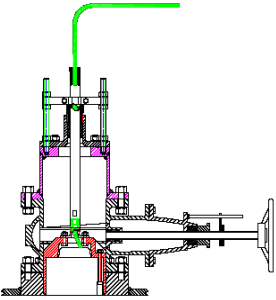
Product	Reg. no	Description	
Transducer Tank combo aluminium 	ETNALC	For transducers Material Certificates Weight Retail price (NOK)	ETN050(X)TA ETN200S(X)TA Aluminium, DIN/1725/1 Alloy 6082 Subject to local approval 7 kg 11 970,-
Ice protection transducer Tank 	ETNSTCI	For transducers Material Certificates Weight Retail price (NOK)	ETN050T(XT) Steel, ST.52.3N DNV and GL approved 35 kg 16 958,-
Ice protection transducer Tank for low frequency 	ETNSTCILF	For transducers Material Certificates Weight Retail price (NOK)	ETN024T & ETN038T Steel, ST.52.3N DNV approved 44 kg 26 600,-
Additional approvals for tanks (except ETNAL and ETNALC)	ETNST-ABS ETNST-BV ETNST-LR ETNSTCLF-ABS ETNSTCLF-BV ETNSTCLF-LR ETNSTC-ABS ETNSTC-BV ETNSTC-LR ETNSTCI-ABS ETNSTCI-BV ETNSTCI-LR	Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK)	9 180,- 9 180,- 9 180,- 10 973,- 10 973,- 10 973,- 10 973,- 10 973,- 10 973,- 18 158,- 18 158,- 18 158,-

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SEA VALVES FOR NAVIGATION ECHO SOUNDERS

Product	Reg. no	Description	
Sea Valve 100 mm Single bottom installation 	SB-100-SB	For transducers Material Certificate Weight Retail Price (NOK)	ETN050G(XG) ETN200SG(SXG) Stainless Ball Valve DNV approved GL, LR, ABS and BV on request 85 kg 42 500,-
Sea Valve 100 mm Double bottom installation 	DB-100-SB	For sensor Material Certificates Weight Distance between hull and tank top Retail price (NOK)	ETN050G(XG) ETN200SG(SXG) Stainless ball valve DNV approved. GL, LR, ABS and BV on request 70 kg 0-2.3 m If more than 2.3 m, additional extension tubes are needed 55 000,-
Additional extension tube for above Sea Valves 0.5 m	DB-2026	Retail price (NOK)	1 418,-
Additional extension tube for above Sea Valves 1 m	DB-2025	Retail price (NOK)	2 175,-
Additional approvals for 100 mm Sea Valves	SB-100-SB-ABS SB-100-SB-BV SB-100-SB-GL SB-100-SB-LR DB-100-SB-ABS DB-100-SB-BV DB-100-SB-GL DB-100-SB-LR	Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK) Retail price (NOK)	45 625,- 45 625,- 45 625,- 45 625,- 58 125,- 58 125,- 58 125,- 58 125,-







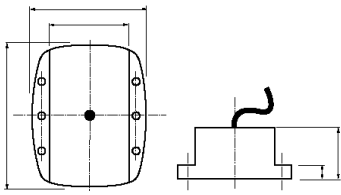
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Product	Reg. no	Description	
Sea Valve 200 mm Single bottom installation 	SB-200-ECHO	For transducers	ETN024G & ETN038G
		Material	Stainless steel/ Bronze TP316/TP316L
		Certificate	DNV approved GL, LR, ABS and BV on request
		Weight	155.5 kg without sensor
		Retail price (NOK)	147 500,-
Additional approvals for 200 mm Sea Valves	GVA-GL	Retail price (NOK)	2 500,-
	GVA-ABS	Retail price (NOK)	2 500,-
	GVA-BV	Retail price (NOK)	2 500,-
	GVA-LR	Retail price (NOK)	2 500,-

TRANSDUCERS FOR TANK INSTALLATION







Product	Reg. no	Description	
24 kHz For Tank  SKIPPER M 181-24-40L	ETN024T	Type Frequency Angle Cable length Installation tank Delivery includes	Ceramic 24 kHz 20° Circular 40 m ETNSTCLF Transducer, cable, junction box and mounting material
		Retail price (NOK)	18 133,-
38 kHz For Tank  SKIPPER M 181-38-40L	ETN038T	Type Frequency Angle Cable length Installation tank Delivery includes	Ceramic 38 kHz 16° Circular 40 m ETNSTCLF Transducer, cable, junction box and mounting material
		Retail price (NOK)	18 133,-

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Product	Reg. no	Description	
50 kHz For Tank  SKIPPER TGM 60-50-25L SKIPPER TGM 60-50-40L	ETN050T ETN050XT 	Technical details Cable length For tank mounting Delivery includes Retail price (NOK) Retail price (NOK)	50 kHz/Ceramic/33° 25 m and 40 m ETNST, ETNSTC, ETNSTCI & ETNAL Transducer, cable, junction box and mounting material (25 m cable) 5 067,- (40 m cable) 6 400,-
200 kHz For Tank  SKIPPER NGM 100-200-25L SKIPPER NGM 100-200-40L	ETN200T ETN200XT 	Frequency Cable length Installation tanks Delivery includes Retail price (NOK) Retail price (NOK)	200 kHz/Ceramic/6° 25 m and 40 m ETNST and ETNSTC Transducer, cable, junction box and mounting material (25 m cable) 6 800,- (40 m cable) 8 133,-
200 kHz For Tank  SKIPPER TGM-50-200-25L SKIPPER TGM-50-200-40L	ETN200ST ETN200SXT 	Technical details Cable length Installation tank For Sea Valve Delivery includes Retail price (NOK) Retail price (NOK)	200 kHz/Ceramic/10° 25 m and 40 m ETNAL, ETNST and ETNSTC ETNSLJB Transducer, cable, junction box and mounting material (25 m cable) 6 800,- (40 m cable) 8 133,-
38 kHz For old Tank  SKIPPER 69 GA/c	ZZL-01025	Frequency Material Beam width Cable length For mounting in tank Delivery includes Retail price (NOK)	38 kHz Ceramic 10 x 20° 40 m ZZL-01007 Transducer and bolts 31 999,-
Bottom Steel plate for tank ZZL-01007	ZZL-01006	Retail price (NOK)	10 425,-

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TRANSDUCERS FOR SEA VALVE INSTALLATION

Product	Reg. no	Description	
24 kHz For Sea Valve  SKIPPER M 181-24-40L	ETN024G	Type Frequency Angle Cable length For Sea Valve Delivery includes	Ceramic 24 kHz 20° Circular 40 m SB-200 Transducer, cable, junction box and mounting material with adapters
		Retail price (NOK)	18 133,-
38 kHz For Sea Valve  SKIPPER M 181-38-40L	ETN038G	Type Frequency Angle Cable length For Sea Valve Delivery includes	Ceramic 38 kHz 16° Circular 40 m SB-200 Transducer, cable, junction box and mounting material with adapters
		Retail price (NOK)	18 133,-
50 kHz For Sea Valve SB-100 & DB-100  SKIPPER TGM 60-50-25L SKIPPER TGM 60-50-40L	ETN050G ETN050XG 	Technical details Cable lengths For Sea Valves Delivery includes	50 kHz/Ceramic/33° 25 m and 40 m SB-100 & DB-100 Transducer, cable, junction box and mounting material with adapters
		Retail price (NOK)	(25 m cable) 5 067,-
		Retail price (NOK)	(40 m cable) 6 400,-
200 kHz with 50 mm diameter for Sea Valve SB-100 & DB-100  SKIPPER TGM 50-200-25L SKIPPER TGM 50-200-40L	ETN200SG ETN200SXG 	Technical details Cable lengths For Sea Valves Delivery includes	200 kHz/Ceramic/10° 25 m and 40 m SB-100 & DB-100 Transducer, cable, junction box and mounting material with adapters
		Retail price (NOK)	(25 m cable) 6 800,-
		Retail price (NOK)	(40 m cable) 8 133,-

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<p>50 kHz For Sea Valve SB-100-SB with ice protection</p>  <p>SKIPPER TGM 60-50-25L SKIPPER TGM 60-50-40L</p>	<p>ETN050GI ETN050XGI</p> 	<p>Technical details Cable length For Sea Valve Delivery includes</p> <p>Retail price (NOK) Retail price (NOK)</p>	<p>50 kHz/Ceramic/33° 25 m and 40 m SB-100-SB Transducer, cable, junction box and mounting material</p> <p>(25 m cable) 10 400,- (40 m cable) 11 733,-</p>
<p>200 kHz for Sea Valve SB- 100-SB with ice protection</p>  <p>SKIPPER TGM-50-200-25L SKIPPER TGM-50-200-40L</p>	<p>ETN200SGI ETN200SXGI</p> 	<p>Technical details Cable length For Sea Valve Delivery includes</p> <p>Retail price (NOK) Retail price (NOK)</p>	<p>200 kHz/Ceramic/10° 25 m and 40 m SB-100 & DB-100 Transducer, cable, junction box and mounting material With adapters</p> <p>(25 m cable) 12 133,- (25 m cable) 13 466,-</p>

**TRANSDUCERS FOR SEA VALVE MOUNT
(PREVIOUS Single bottom Sea Valve ETNSLJB)**

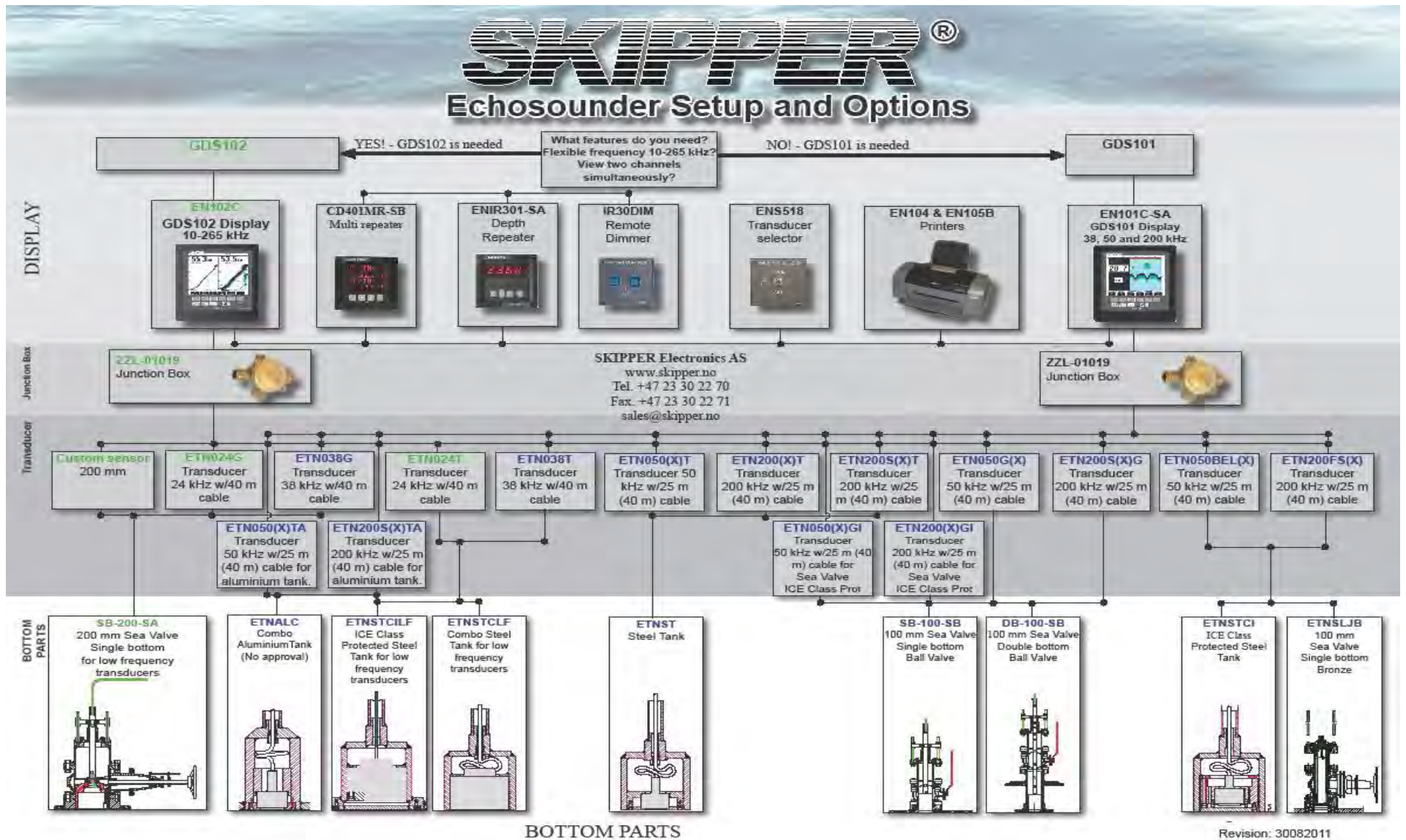
Product	Reg. no	Description	
<p>50 kHz For Sea Valve ETNSLJB</p>  <p>SKIPPER TGM 60-50-25L SKIPPER TGM 60-50-40L</p>	<p>ETN050BEL ETN050BELX</p> 	<p>Technical details Cable length For Ice Tank For Sea Valve Delivery includes</p> <p>Retail price (NOK) Retail price (NOK)</p>	<p>50 kHz/Ceramic/33° 25 m and 40 m ETNSTCI ETNSLJB Transducer and cable</p> <p>(25 m cable) 5 067,- (40 m cable) 6 400,-</p>
<p>200 kHz For Sea Valve ETNSLJB</p>  <p>SKIPPER TGM 50-200-25L SKIPPER TGM 50-200-40L</p>	<p>ETN200FS ETN200FSX</p> 	<p>Technical details Cable length For Ice Tank For Sea Valve Delivery includes</p> <p>Retail price (NOK) Retail price (NOK)</p>	<p>200 kHz/Ceramic/10° 25 m and 40 m ETNSTCI ETNSLJB Transducer and cable</p> <p>(25 m cable) 6 800,- (40 m cable) 8 133,-</p>

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TRANSDUCERS SELECTION TABLE

Frequency	24 kHz				38 kHz					50 kHz			200 kHz		
	ETF024M	ETN024T or G	ZZL-01025	ETF038M	ETN038T or G	ETF38A	ETF38E	ETF50D	ETF50L	ETF050BZC	ETN050T or G	ETF200FPL	ETN200T	ZZL-01021	ETN200ST or SG
Type of transducer															
Beam angle (dgr)	20	20	10 x 20	20	20	10 x 12	11 x 19	10 x 16	16	30	33	12	6	8	10
Cable length (m)	15	40	40	15	40	15	15	10	10	13	25	8	25	25	25
Max. Power (kW)	3	3	1.5	3	3	2.5	1,2	2	1	1	1	0,3	1,5	1,5	1
Impedance (Ohm)												150-350			
			69 GA/c												
FISHERY															
SKIPPER ES675	Dual frequency transducer is included														
SKIPPER ES2035B								REC	CBU						
SKIPPER ES2035BF								REC	CBU				REC	REC	CBU
SKIPPER ES1080FFS	CBU	CBU	CBU	CBU	CBU	REC	CBU	REC	CBU				REC	CBU	CBU
SKIPPER GDF201			CBU	CBU	CBU	REC	CBU	REC					REC	CBU	CBU
NAVIGATION															
SKIPPER GDS101		CBU	CBU		STD							STD	STD		CBU
SKIPPER GDS102		CBU	CBU		STD							STD	STD		CBU
SKIPPER ED165B												STD			
SKIPPER ED165F													STD		CBU

STD = STANDARD
CBU = CAN BE USED
REC = RECOMMENDED



NAVIGATION SPEED LOG SYSTEMS



Product	Reg. no	Description
<p><i>Single/Dual axis electromagnetic speed log</i></p> <p>SKIPPER EML224 Compact</p> 	<p>EML224C</p> 	<p>Cabinet: Dimensions 144/144 mm H/W Display 30 x 28 red LED dot matrix Power supply 20 - 32 VDC Weight 1 kg</p> <p>System: Input NMEA 0183 Nav data</p> <p>Outputs NMEA 0183, RS232 and pulse</p> <p>Power supply for electronic unit 20 - 32 VDC and 115 - 230 VAC</p> <p>Certificates Wheelmark</p> <p>Delivery includes: Compact Cabinet, Electronic unit Tank/Sea Valve and sensor w/40 m cable</p>

Product	Reg. no	Price	
Single axis, steel tank version	SY-EML124CT-SA	Retail price (NOK)	50 555,-
Single axis, aluminium tank version	SY-EML124CT-SB	Retail price (NOK)	53 148,-
Single axis, single bottom Sea Valve version	SY-EML124CSB-SA	Retail price (NOK)	54 991,-
Single axis, double bottom Sea Valve version	SY-EML124CDB-SA	Retail price (NOK)	67 491,-
Dual axis, steel tank version	SY-EML224CT-SA	Retail price (NOK)	55 555,-
Dual axis, aluminium tank version	SY-EML224CT-SB	Retail price (NOK)	58 148,-
Dual axis, single bottom Sea Valve version	SY-EML224CSB-SA	Retail price (NOK)	59 991,-
Dual axis, double bottom Sea Valve version	SY-EML224CDB-SA	Retail price (NOK)	72 491,-

SPECIAL VERSION FOR RETROFIT IN SIMRAD NL LOG TANK OR SEA VALVE

Product	Reg. no	Price	
Dual axis SIMRAD NL log version	SY-EML224CNL-SA	Retail price (NOK)	59 991,-

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Product	Reg. no	Description	
SKIPPER EML224 <i>Dual axis electromagnetic speed log</i> 	EML224N 	Cabinet: Dimensions H/W/D Display Power supply Weight System: Input Outputs Certificates Delivery includes	345/320/171 mm 10.4" colour LCD 20 - 32 VDC/115 - 230VAC 10 kg NMEA 0183 Nav. data NMEA 0183, RS232, VGA and pulse Wheelmark Std. cabinet, electronic unit, tank/Sea Valve and sensor w/cable 40 m

Product	Reg. no	Price	
Dual axis, steel tank version	SY-EML224T-SA	Retail price (NOK)	80 305,-
Dual axis, aluminium tank version	SY-EML224T-SB	Retail price (NOK)	82 898,-
Dual axis, single bottom Sea Valve version	SY-EML224SB-SA	Retail price (NOK)	84 741,-
Dual axis, double bottom Sea Valve version	SY-EML224DB-SA	Retail price (NOK)	97 241,-

SPECIAL VERSION FOR RETROFIT IN SIMRAD NL LOG TANK OR SEA VALVE



Product	Reg. no	Price	
Dual axis NL log version	SY-EML224NL-SA	Retail price (NOK)	84 741,-

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<p>SKIPPER DL850 270 kHz</p> <p><i>Dual axis doppler speed log</i></p> <div style="text-align: center; margin-top: 20px;">  </div>	<p>DL850</p> 	<p>Cabinet:</p> <p>Dimensions Display Power supply Input Outputs Water track Bottom lock Certificates</p> <p style="margin-top: 20px;">Delivery includes</p>	<p>345/320/171 mm 10.4" colour LCD 20 – 32 VDC/110 – 230 VAC NMEA 0183 Nav data NMEA 0183, VGA and pulse Less than 2 m 1 - 150 m (normal conditions) Wheelmark DNV (Sea Valve) DNV & GL (Tank) Cabinet, Transceiver unit, tank/ Sea Valve and sensor w/40 m cable</p>
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Product	Reg. no	Price	
Dual axis, steel Tank version	SY-DL850T-SA	Retail price (NOK)	153 627,-
Dual axis, aluminium Tank version	SY-DL850T-SB	Retail price (NOK)	156 220,-
Dual axis, single bottom stainless steel Ball Valve version	SY-DL850SB-SB	Retail price (NOK)	186 750,-
Dual axis, double bottom stainless steel Ball Valve version	SY-DL850DB-SB	Retail price (NOK)	199 250,-

Retail Pricelist 2012

Product	Reg. no	Description	
SKIPPER DL850 Docking 270 kHz <i>Dual axis doppler speed log with Docking Mode</i> 	DL850 	Cabinet: Dimensions Display Power supply Input Outputs Water track Bottom lock Certificates Delivery includes:	345/320/171 mm 10.4" colour LCD 20-32 VDC/115 – 230 VAC NMEA 0183 Nav data NMEA 0183, VGA and pulse Less than 3 m 1 – 150 m (normal conditions) Wheelmark, DNV (Sea Valve) DNV & GL (Tank) Cabinet, Transceiver unit, tank/ Sea Valve and sensor w/40 m cable









Product	Reg. no	Price	
Docking, dual axis steel Tank version	SY-DL850DT-SA	Retail price (NOK)	166 127,-
Docking, dual axis aluminium Tank version	SY-DL850DT-SB	Retail price (NOK)	168 720,-
Docking, dual axis single bottom stainless steel Ball Valve version	SY-DL850DSB-SB	Retail price (NOK)	199 250,-
Docking, dual axis, double bottom stainless steel Ball Valve version	SY-DL850DDB-SB	Retail price (NOK)	211 750,-

UPGRADE FROM STANDARD TO DOCKING VERSION:



Product	Reg. no	Price	
DL850 270 kHz sw. upgrade to full Docking functionality	DL850DUPG	Retail price (NOK)	37 500,-






Retail Pricelist 2012

SPEED LOG ACCESSORIES

Product	Reg. no	Description	
Digital speed & distance repeater with fore/aft transversal speed SKIPPER IR300 	ENIR300PD-SA 	Power supply Input Dimensions H/W Certificate Mounting IP protection Presentation type Retail price (NOK)	20 - 32 VDC NMEA 0183 144/144 mm Yes, in SKIPPER system Bracket or console IP-56 LED segments 9 097,-
Digital speed & distance repeater Same as ENIR300PD-SA, with reversed (aft facing) indications 	ENIR300PDR-SA 	Power supply Input Dimensions H/W Certificate Mounting IP protection Presentation type Retail price (NOK)	20 - 32 VDC NMEA 0183 144/144 mm Yes, in SKIPPER system Bracket or console IP-56 LED segments 10 534,-
Digital speed & distance repeater with fore/aft transversal speed 	CD401LR-SA 	Power supply Input Dimensions H/W Certificate Mounting IP protection Presentation type Retail price (NOK)	20 - 32 VDC NMEA 0183 144/144 mm Yes, in SKIPPER system Bracket or console IP-56 High intensity Dot Matrix 10 250,-
Multirepeater 	CD-401MR-SB  Will repeat: <ul style="list-style-type: none"> • Depth • Speed • Distance • Heading • Rotation • Wind • Pitch and Roll • Temperature • Drive • Clock • Current Indicator 	Power supply Input Dimensions H/W Certificate Mounting IP protection Presentation type Retail price (NOK)	20 - 32 VDC NMEA 0183 144/144 mm Yes, in SKIPPER system Bracket or console IP-56 High intensity Dot Matrix 11 125,-

Retail Pricelist 2012

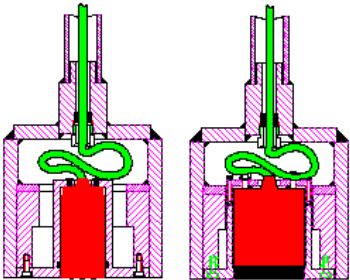
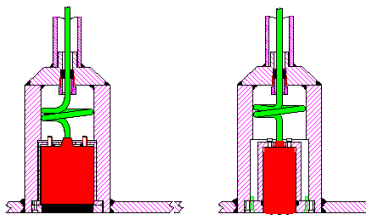
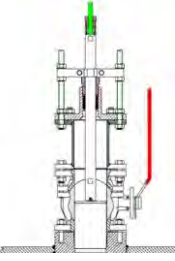
Analogue speed repeater (DEIF) DLQ144-pc-PY 	EMLSPI 	Light supply Input Dimensions H/W Certificate Mounting IP protection Retail price (NOK)	7-30 VDC 0 – 10 V 144/144 mm Yes Console IP-52 9 097,-
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Product	Reg. no	Description	
SKIPPER external dimmer 	IR30DIM 	Remote dimmer control for Dimensions H/W Certificate Retail price (NOK)	SKIPPER IR300, 301 and CD401 96/96 mm Yes, in SKIPPER system 1 164,-
DIN connection terminal for NMEA output signal 	NMEA-DIN	For Cable length Retail price (NOK)	GDS101,GDS102 EML224 and DL850 3 m 750,-
Relay expander 	EML224RB	Relay expander for speed log pulses (pulses pr. nautic mile) Power supply Inputs Outputs Dimensions H/W/D Retail price (NOK)	10 – 40 VDC/115 – 230 VAC 1, 2, 3 or 4 2, 4, 6 or 8 135/170/85 mm 3 763,-
Communication cable 	ZZK-01011	Configuration For Retail price (NOK)	4 twisted pair w/individual screen DL850 and EML224 74,- pr. M
Junction box for EM224	JB12	Configuration For Retail price (NOK)	8 Pole import EML224/EML224 Compact 1 410,-

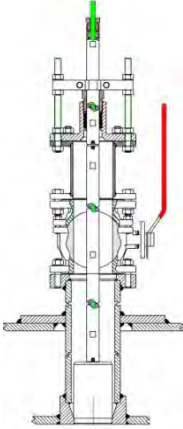
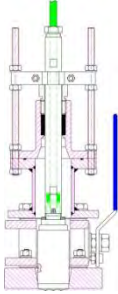
Retail Pricelist 2012

Product	Reg. no	Description	
Individual system approval from Russian Maritime Register of Shipping (EML224/DL850)	APP-RMRS	Retail price (NOK)	2 500,-
Individual system approval from China Classification Society (EML224/DL850)	APP-CCS	Retail price (NOK)	3 000,-
Certificate of origin stamped by SKIPPER (EML224/DL850)	APP-SKIPPER	Retail price (NOK)	500,-
Certificate of origin stamped by Chamber of Commerce (EML224/DL850)	APP-COC	Retail price (NOK)	1 500,-

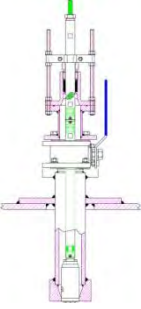
TANKS AND SEA VALVES FOR NAVIGATION SPEED LOGS EML & DL

Product	Reg. no	Description	
Sensor Tank combo 	ETNSTCL	For sensors Material Certificate Weight Retail price (NOK)	EML224ST-SD DL850S27T-SB Steel, ST.52.3N DNV and GL approved 35 kg 9 377,-
Sensor Tank combo aluminium 	ETNALC	For sensors Material Certificates Weight Retail price (NOK)	EML224STA-SD DL850S27TA-SB Aluminium, IN/1725/1 Alloy 6082 Subject to local approval 7 kg 11 970,-
Sea Valve 100 mm Single bottom installation 	SB-100-SB	For sensor Material Certificate Weight Retail price (NOK)	DL850S27G-SB Stainless ball valve TP316/TP316L DNV approved GL, LR, ABS and BV on request 85 kg 42 500,-

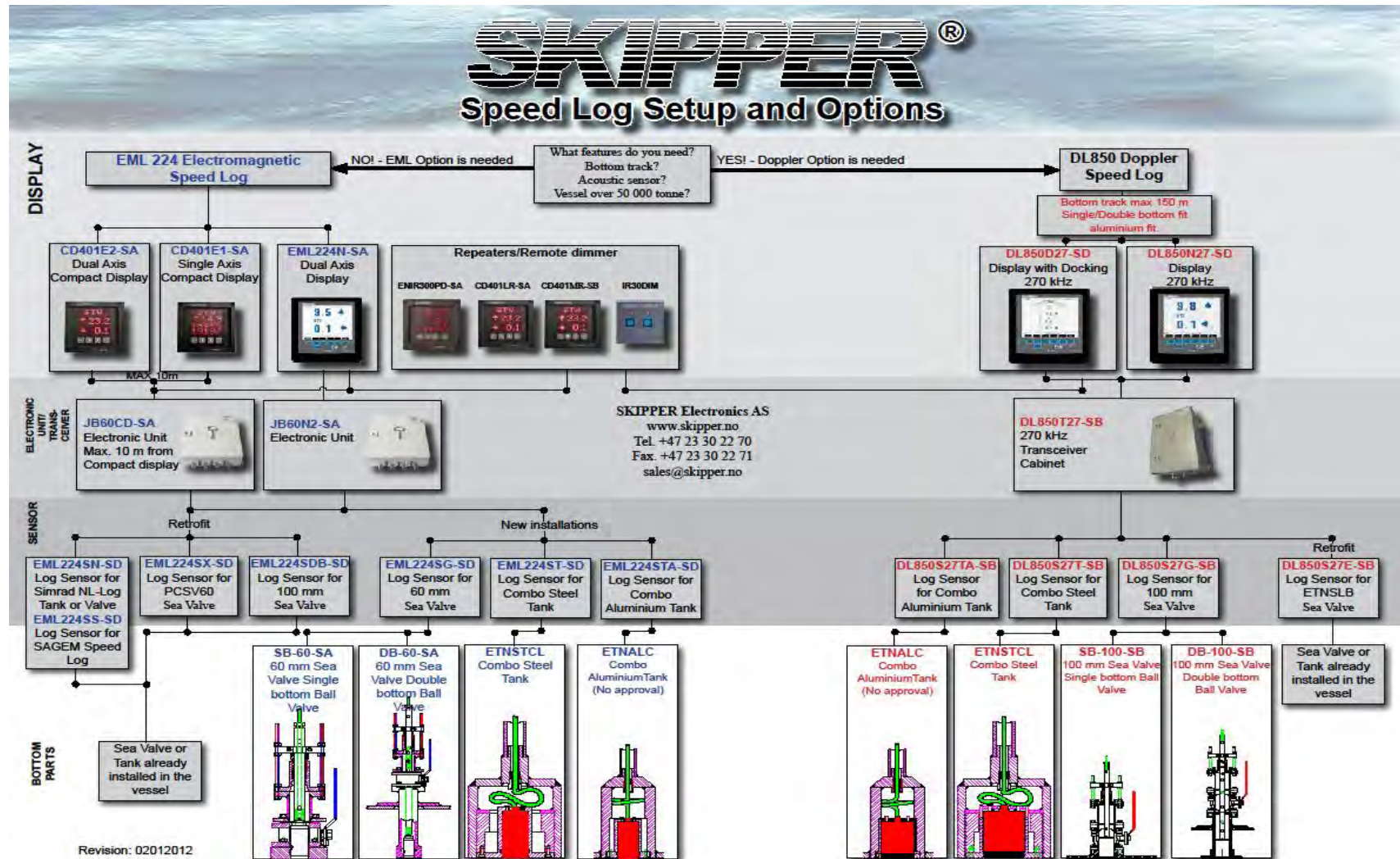
Retail Pricelist 2012

Product	Reg. no	Description	
<p>Sea Valve 100 mm double bottom installation</p> 	DB-100-SB	<p>For sensor</p> <p>Material</p> <p>Certificates</p> <p>Weight</p> <p>Distance between hull and tank top</p> <p>Retail price (NOK)</p>	<p>DL850S27G-SB</p> <p>Stainless ball valve TP316/TP316L</p> <p>DNV approved GL, LR, ABS and BV on request</p> <p>70 kg 0 – 2.3 m If more than 2.3 m extension tubes are needed</p> <p style="text-align: right;">55 000,-</p>
<p>Sea valve 60 mm single bottom installation</p> 	SB-60-SA	<p>For sensor</p> <p>Material</p> <p>Certificates</p> <p>Weight</p> <p>Retail price (NOK)</p>	<p>EML224SG-SD</p> <p>Stainless ball valve TP316/TP316L</p> <p>DNV approved GL, LR, ABS and BV on request</p> <p>35 kg</p> <p style="text-align: right;">12 500,-</p>


Retail Pricelist 2012

Product	Reg. no	Description	
Sea Valve 60 mm double bottom installation 	DB-60-SA	For sensor	EML224SG-SD
		Material	Stainless ball valve TP316/TP316L
		Certificates	DNV approved GL, LR, ABS and BV on request
		Weight	73 kg
		Retail price (NOK)	25 000,-
Additional extension tube for above Sea Valves 0.5 meter	DB-2026	Retail price (NOK)	1 418,-
Additional extension tube for above Sea Valves 1 meter	DB-2025	Retail price (NOK)	2 175,-
Additional approvals for all Sea Valves and Tanks for Speed Logs	ETNSTCL-ABS	Retail price (NOK)	10 577,-
	ETNSTCL-BV	Retail price (NOK)	10 577,-
	ETNSTCL-LR	Retail price (NOK)	10 577,-
	SB-60-SA-ABS	Retail price (NOK)	15 625,-
	SB-60-SA-BV	Retail price (NOK)	15 625,-
	SB-60-SA-GL	Retail price (NOK)	15 625,-
	SB-60-SA-LR	Retail price (NOK)	15 625,-
	DB-60-SA-ABS	Retail price (NOK)	28 125,-
	DB-60-SA-BV	Retail price (NOK)	28 125,-
	DB-60-SA-GL	Retail price (NOK)	28 125,-
	DB-60-SA-LR	Retail price (NOK)	28 125,-
	SB-100-SB-ABS	Retail price (NOK)	45 625,-
	SB-100-SB-BV	Retail price (NOK)	45 625,-
	SB-100-SB-GL	Retail price (NOK)	45 625,-
	SB-100-SB-LR	Retail price (NOK)	45 625,-
	DB-100-SB-ABS	Retail price (NOK)	58 125,-
DB-100-SB-BV	Retail price (NOK)	58 125,-	
DB-100-SB-GL	Retail price (NOK)	58 125,-	
DB-100-SB-LR	Retail price (NOK)	58 125,-	

Retail Pricelist 2012




DIGITAL GYRO REPEATER

Product	Reg. no	Description	
<p>SKIPPER digital gyro repeater</p> 	<p>DGR360-SA</p>	<p>Cabinet Dimensions Display Power supply Input Outputs Weight Protection Retail price (NOK)</p>	<p>190/158 mm 1 line with 7 segments (30 x 20 mm) 20-32 VDC NMEA 0183 Sentence: \$--HDT, \$-- THS Remote dimmer input NMEA 0183 2 kg IP 56 6 411,-</p>

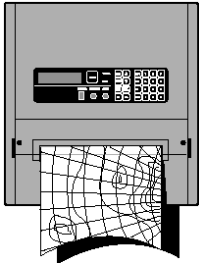
Retail Pricelist 2012

VHF/MF/HF DIRECTION FINDERS

Product	Reg. no	Description	
VHF-Direction finder TAIYO TD-L1550 	TD-L1550	Frequency range Power supply Dimensions H/W/D Weight Delivery includes	International VHF ch. + 121.5 MHz 12 VDC/AC option 185/165/95 mm 2.7 kg Cabinet, antenna EA-351A and cable
	SY-DF1550K-16	Complete system with 16 m cable Retail price (NOK)	28 250,-
	SY-DF1550K-20	Complete system with 20 m cable Retail price (NOK)	37 775,-
	SY-DF1550K-25	Complete system with 25 m cable Retail price (NOK)	40 775,-
	SY-DF1550K-32	Complete system with 32 m cable Retail price (NOK)	44 500,-

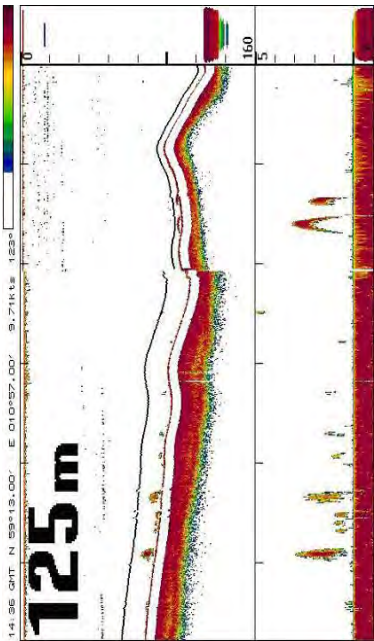
Other Direction finders/frequencies (MF/HF), or if more than 32 m cable is needed, please contact SKIPPER

WEATHER FACSIMILE RECEIVER

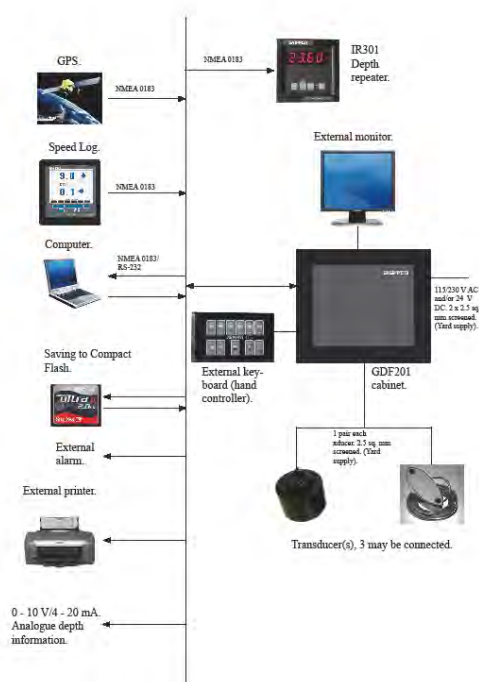
Product	Reg. no	Description	
Synthesized Thermal Weather Facsimile Receiver Taiyo TF712 	WR712K	Frequency range Power supply Printer Recording paper Dim. H/W/D/Weight Delivery includes	MF/HF 2 – 25 MHz 10 – 40 VDC/115 – 230 VAC 9 gray scale 10" 185/165/95 mm/10.5 kg Cabinet, 16 m cable, antenna coupler and 2 m whip
		Retail price (NOK)	38 360,-

Retail Pricelist 2012




FISHERY EQUIPMENT FISHERY ECHO SOUNDERS

Product	Reg. no	Description
<p>SKIPPER GDF201</p> 	<p>EF201</p>	<p>Frequency</p> <p>38, 50 and 200 kHz (Other frequencies on request (ex. 24, 28, 30, 33 and 100 kHz))</p> <p>Power supply</p> <p>20 – 32 VDC/115 – 230 VAC</p> <p>Transmitter power</p> <p>Adjustable up to 1.0 kW</p> <p>Dimensions H/W/D</p> <p>345/320/171 mm</p> <p>Weight</p> <p>11 kg</p> <p>Input</p> <p>NMEA 0183</p> <p>Output</p> <p>NMEA 0183, ext. keyboard, printer and VGA screen</p> <p>Delivery includes</p> <p>Cabinet and remote keyboard</p> <p>Connection for</p> <p>Up to 3 transducers TFT or VGA monitor Standard inkjet printer with Centronics cable</p>
		<p>Digital TVG-function, day/night presentation, alarm, navigation data on screen, normal and bottom lock presentation, filter for reduction of noise, sound velocity adjust, marker with trip counter</p>
		<p>Retail price (NOK)</p> <p style="text-align: right;">23 075,-</p>

GDF201 SYSTEM




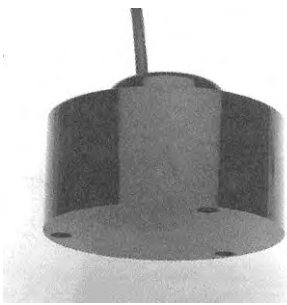
Retail Pricelist 2012

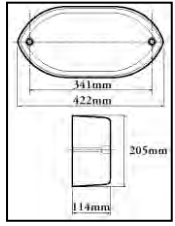
Product	Reg. no	Description	
SKIPPER ES2035 	EF2035B EF2035BF	Frequency Frequency Power supply Transmitter power Display Input Output Dimensions H/W/D Weight EF2035B Retail price (NOK) EF2035BF Retail price (NOK)	50 kHz Dual 50 & 200 kHz 10.5 – 40 VDC 1 kW 10.4" colour LCD Temp*/ NMEA 0183* NMEA 0183 314/296/130 mm 5 kg 15 000,- 18 563,-
SKIPPER ES1080FFS "Flexi frequency system" 	EF1080FFS	Flexible freq. system Power supply Transmitter power Display Input Dimensions H/W/D Weight Output Retail price (NOK)	20, 24, 28, 38, 40, 45, 49, 50, 60, 70, 75, 80, 150 and 200 kHz 10.5 – 40 VDC 1.5 kW 10.4" colour LCD Temp*/NMEA 0183* 314/296/130 mm 6 kg NMEA 0183 18 125,-
SKIPPER ES675 Dual frequency 50 and 200 kHz 	EF675BF	Frequency Power supply Display Input Dimensions H/W/D Weight Output Retail price (NOK)	50 and 200 kHz 10.5-30 VDC 6.5" colour LCD Temp*, NMEA 0183* 220/200/145 mm 7.5 kg inc. transceiver NMEA 0183 9 038,-

***Optional delivery**

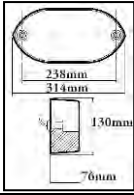
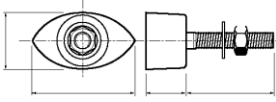
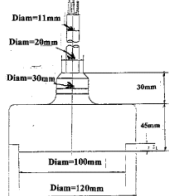

Retail Pricelist 2012

TRANSDUCERS FOR FISHERY SOUNDERS

Product	Reg. no	Description	
SKIPPER M 181-24-15L 	ETF024T	Frequency/Material Angle Cable length For tank mounting Max power Delivery includes Retail price (NOK)	24 kHz/Ceramic 20° Circular 15 m ETNSTCLF 3 kW Transducer and mounting material 16 000,-
SKIPPER M 181-38-15L 	ETF038T	Frequency/Material Angle Cable length For tank mounting Max power Delivery includes Retail price (NOK)	38 kHz/Ceramic 16° Circular 15 m ETNSTCLF 3 kW Transducer and mounting material 16 000,-

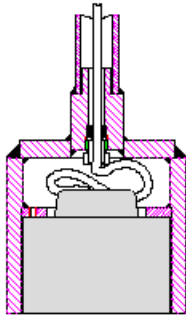
Product	Reg. no	Description	
SKIPPER 10 x 12° 	ETF38A	Frequency/Material Beam width Max power Cable length Weight Retail price (NOK)	38 kHz/Ceramic 10 x 12° 2.5 kW 15 m 12 kg 16 375,-

Retail Pricelist 2012


Product	Reg. no	Description	
SKIPPER 10 x 16° 	ETF50D	Frequency/Material Beam width Max power Cable length Weight Retail price (NOK)	50 kHz/Ceramic 10 x 16° 2 kW 15 m 7 kg 6 875,-
SKIPPER 30° 	ETF050BZC	Frequency/Material Beam width Max power Cable length Weight Retail price (NOK)	50 kHz/Ceramic 30° 800 W 10 m 3 kg 1 313,-
SKIPPER 8° 	ZZL-01021	Frequency/Material Beam width Max power Cable length Weight Retail price (NOK)	200 kHz/Ceramic 8° 1.5 kW 25 m 5 kg 4 938,-
Stuffing tube 	ZZL-01011 ZZL-01012	Material Material Retail price (NOK)	Steel Bronze 900,-

Retail Pricelist 2012

STEEL TANK FOR ABOVE TRANSDUCERS

Product	Reg. no	Description	
Transducer Tank 	ETNSTCLF	For transducers Material Certificate Weight Retail price (NOK)	ETF024T, ETF038T Steel, ST.52.3N DNV approved 35 kg 9 377,-

FISHERY SONAR

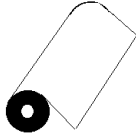
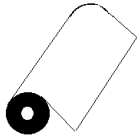
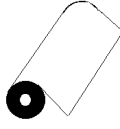
Product	Reg. no	Description	
4" Searchlight sonar 	FS1400	Operator unit: Power supply Display Dimensions H/W/D Weight display Hull unit: Frequency Sonar type Power supply Weight hull unit Sonar trunk Retail price (NOK)	20 – 30 VDC 10.4" colour LCD 296/288/130 mm 6 kg 200 kHz Searchlight sonar Powered from display 17 kg without trunk 4" 49 875,-

Retail Pricelist 2012

Product	Reg. no	Description	
Sonar control box for use with external monitor 	FS1800KO	Power supply Display Dimensions H/W/D Weight	12 – 40 VDC External *Option 342/318/150 mm 3.2 kg Retail price (NOK) 18 000,-
Sonar, display unit 	FS1800M	Power supply Display Dimensions H/W/D Weight	12 – 40 VDC 10.4" colour LCD 117/299/218mm 7 kg Retail price (NOK) 30 000,-
Hull unit 150 kHz 	FS1800H	Frequency Sonar type Power supply Weight Sonar trunk	150 kHz Sector scanning 20 – 30 VDC 50 kg 8" Retail price (NOK) 127 000,-
Hull unit 180 kHz 	FS1800F	Frequency Sonar type Power supply Weight Sonar trunk	180 kHz Searchlight sonar 12 – 30 VDC 44 kg 6" Retail price (NOK) 67 500,-

Retail Pricelist 2012

RECORDING PAPER

Product	Reg. no	Description
SKIPPER TP4 	ZZF-01000 Retail price (NOK)	Width/Length: 4"/100 mm/15m For: SKIPPER 404, 405, 406, 411, 417, 701 124,-
SKIPPER TP6 	ZZF-01001 Retail price (NOK)	Width/Length: 6"/154 mm/20 m For: SKIPPER 603, 607, ED161/162/165 SIMRAD EX, EL, EY, EN 108,-
SKIPPER TP216 	ZZF-01010 Retail price (NOK)	Width/Length: 8"/203 mm /14 m For: SKIPPER GDS101, SIMRAD EN250 145,-

Retail Pricelist 2012

SPARE PARTS

DESCRIPTION	Part Number	Price NOK Retail
DL850 Doppler Speed Log		
CPU upgrd DL850 270 6135=>6742 w CPU plate, mesa and IO card	SA-C126	14 850,-
CPU upgrd DL850 540 6135=>6742 w CPU plate, mesa and IO card	SA-C125	14 850,-
I/O PCB Combo (before 2007) please specify SW version	PI-D001	7 245,-
PCB Combo I/O with EPC1(for CPU 6742)	PI-C052	7 245,-
PCB CPU 6742VEF Setup ready. No Flash card.	PC-C053	7 050,-
KEYBOARD PCB Combo (DL850/EML224)	PK-C001	4 628,-
RS422 Terminal PCB (DL850)	ZZZ-030011DL	750,-
Terminal PCB Combo (DL850/EML224)	PT-C001	16 305,-
Cooling fan	ZZJ-02019	315,-
Sub Assy EML/DL Frontplate, LCD and CPU plate	SA-C112	10 200,-
BATTERY LITHIUM I/O BOARD CR2032 3V PCB mounting (Combo I/O)	ZZG-01003	284,-
IC RS422 SO-16, DS26C31TM/NOPB NMEA	ZZW-01002	45,-
DL850 270 kHz		
Transceiver unit, power PCB 270 kHz	PP-D271	7 410,-
PCB, DL850 Receiver module (X3) for 270kHz (for logic ver1)	PV-D272	18 525,-
Transceiver unit, transmitter PCB 270 kHz	PX-D271	16 320,-
Programmed Logic chip for DL850T27-XB for IC 801	LG-T001	1 425,-
Log sensor DL850, 270 kHz for ETNSLB Sea Valve 100 mm	DL850S27E-SB	71 750,-
Log sensor for Sea Valve DL850 270 kHz SKIPPER	DL850S27G-SB	71 750,-
Log sensor for combo alu. Tank DL850 complete, 270 kHz SKIPPER	DL850S27TA-SB	71 750,-
Log sensor for Tank DL850 complete, 270 kHz SKIPPER	DL850S27T-SB	71 750,-
PCB DL850-DBP BACKPLANE For 270 kHz System	PM-D271	2 888,-
Exchange unit, DL850D27-SC 270 kHz, SKIPPER *	DLX850D27-SD	52 500,-
Exchange unit, DL850N27-SD 270kHz, SKIPPER *	DLX850N27-SD	40 000,-
DL850 540 kHz		
Transceiver unit, power PCB 540 kHz	PP-D001	7 410,-
Transceiver unit, transmitter PCB 540 kHz	PX-D001	16 320,-
Transceiver unit, receiver PCB 540 kHz	PV-D001	18 525,-
Sensor cable 30 m	SC30-SA	18 600,-
Sensor cable 40 m	SC40-SA	21 150,-
Sensor complete 540 kHz without cable	DL850S-SA	62 500,-
Exchange unit, DL850N-SC 540kHz, SKIPPER	DLX850N-SC	40 000,-
Exchange Sensor DL850 540 kHz. ETNSLB Gate Valve	DLX850S	62 500,-
EML224 Electro Magnetic Speed Log		
PCB CPU 6742VEF Setup ready. No Flash card.	PC-C053	7 050,-
CPU upgrd EML224 270 6135=>6742 w CPU plate, mesa and IO card	SA-C127	14 850,-
PCB Combo I/O with EPC1(for CPU 6742)	PI-C052	7 245,-
I/O PCB Combo EML ver 1.27.12	PI-E001	7 245,-
Keyboard PCB Combo	PK-C001	4 628,-
PCB Sensor power 2 (also replacement for Sensor power1) for JB60	PP-C002	3 945,-
PCB Sensor power 2. EML224 Compact setting.	PP-C003	3 945,-
RS422 Terminal PCB	ZZZ-030011EML	750,-
Terminal PCB Combo	PT-C001	16 305,-
Cooling fan	ZZJ-02019	315,-
Log sensor for SB/DB Sea Valve complete EML, 40 m SKIPPER	EML224SG-SD	26 313,-
Log sensor for tank complete EML224, 40 m SKIPPER	EML224ST-SD	25 000,-
Log sensor for PCSV60 Sea Valve complete EML, 40 m	EML224SX-SD	31 250,-
Log sensor complete EML224, for Simrad NL-Log, 40 m cable	EML224SN-SD	38 813,-
Sub Assy EML/DL Frontplate, LCD and CPU plate	SA-C112	10 200,-
* The price is based on return of the same model cabinet to SKIPPER Electronics AS. The exchange unit is invoiced full price when shipped. The price difference (NOK 10 000,-) between full price and exchange price will be credited when the returned cabinet is received by SKIPPER Electronics AS. The exchange units are subject to availability.		

Retail Pricelist 2012

<i>GDS101 Navigational Echo Sounder</i>	<i>Part Number</i>	<i>Price NOK Retail</i>
CPU upgrd GDS101U (Mono) 6135 => 6742 w CPU plate, etc.	SA-G144	14 850,00
CPU upgrd GDS101 6135 => 6742 w CPU plate, mesa and IO card	SA-G142	14 850,00
PCB CPU 6742VEF Setup ready. No Flash card.	PC-C053	7 050,00
HV Inverter PCB. Colour screen.	ZAA-01137	780,00
Cable for GDS101/GDF201 I/O-J100 - MOTH/J100 2nd edition	ZZK-01081	300,00
PCB Motherboard for GDS101	ZZZ-010006	1 308,00
PCB I/O board FOR GDS101 Mono/colour. for CPU6135	PI-G021	7 178,00
I/O PCB Ver D with software. Mono/Colour for CPU6135. 50% Power (EN250)	PI-G022	7 178,00
PCB I/O board for GDS101C Colour for CPU 6742	PI-G032	7 178,00
Keyboard PCB. Colour ver D	PK-G021	2 610,00
Keyboard PCB. Mono ver B	PK-G001	2 610,00
Terminal PCB. Ver E3P. Mono screen	PT-G001	9 570,00
PCB Treminal board GDS101C Colour	PT-G041	8 070,00
Transceiver PCB for GDS101/U/C	PS-G002	6 015,00
Cooling fan	ZZJ-02019	315,00
Front plate colour with front overlay and front glass	SA-G041	1 500,00
Frontplate mono ext printer with front overlay and front glass	SA-G021	1 500,00
Frontplate mono int printer with front overlay and front glass	SA-G001	1 500,00
LCD panel 9,4" mono GDS101U 27 kohm. Sharp LM64P83L	KY-G001	5 850,00
LCD panel 9,4" Mono GDS101U 24 kohm. Hitachi LM5278XUFC.	KY-G002	5 850,00
Recording paper TP216 (for internal printer)	ZZF-01010	145,00
TFT 10.4" colour. Sharp	KY-C003	5 850,00
Backlight for colour screen	ZAA-01001BL	1 500,00
PCB Motherboard GDS - Tested	PM-G002	1 308,00
Logic for IC101 GDS Special Software	LG-G005	5 250,00
IC UA9638CPE4, Dual RS422,9638,DIP8, GDS101 NMEA	ZZW-01004	38,00
BATTERY LITHIUM I/O BOARD CR2032 3V PCB mounting (Combo I/O)	ZZG-01003	284,00
Trafo 60W with plugs for GDS101/DL850/EML224	SA-C002	1 275,00
GDS101 colourscreen. Exchange unit *	ENX101C	37 100,00
GDS101 monoscreen, with internal printer. Exchange unit *	ENX101	42 500,00
GDS101 Monoscreen. Exchange unit *	ENX101U	37 100,00
<i>GDS102 Navigational Echo Sounder</i>		
CPU upgrd GDS102 6135 => 6742 w CPU plate, mesa and IO card	SA-C124	14 850,00
PCB CPU 6742VEF Setup ready. No flash card.	PC-C053	7 050,00
Dual TX/RX PCB	PS-G051	16 358,00
HV inverter PCB. Colour screen.	ZAA-01137	780,00
PCB combo I/O	PI-C052	7 245,00
Keyboard PCB combo. 11 buttons	PK-C002	4 628,00
Terminal PCB combo for GDS102	PT-C051	16 305,00
Cooling fan	ZZJ-02019	315,00
Front plate colour. With front overlay and front glass	SA-G041	1 500,00
TFT 10.4" colour. Sharp	KY-C003	5 850,00
Bootable CF memory for GDS102S Special SW (CPU6742)	MB-G002S	5 250,00
Bootable CF memory for GDS102 (CPU6742)	MB-G002	2 250,00
Bootable Disc-On-Module GDS102S Special SW (CPU6753)	ENSW102	5 250,00

Retail Pricelist 2012

GDF201 Fishery Echo Sounder		
CPU upgrd GDF201 6135 => 6742 w CPU plate, mesa and IO card	SA-G143	14 850,00
PCB CPU 6742VEF Setup ready. Bios 1.12 No Flash card.	PC-C053	7 050,00
PCB TERMINAL board GDF201, 24V, sticker, jumper	PI-G031	7 178,00
PCB I/O board for GDF201 verD SW v 2.18 (All CPU before 2008)	PI-G023	7 178,00
Terminal PCB. GDF201 E3 (All CPU before 2008)	PT-G031	8 070,00
PCB terminal board GDS101 E3P, Monochrome screen w/printer	PT-G001	9 570,00
PCB TRANSCIEVER GDF201 adjusted - Calibrated	PS-G012	6 015,00
Cooling fan	ZZJ-02019	315,00
* The price is based on return of the same model cabinet to SKIPPER Electronics AS. The exchange unit is invoiced full price when shipped. The price difference (NOK 10 000,-) between full price and exchange price will be credited when the returned cabinet is received by SKIPPER Electronics AS.		

ES-1080 Fishery Echo Sounder	Part number	Price NOK Retail
Control boardes ES-1080 NO.701	ZZZ-09129	480,00
Control boardes ES-1080FFS N.714	ZZZ-09127	2 430,00
External boardes ES-1080FFSN.715	ZZZ-09126	240,00
Main board ES-1080 No.696A	ZZZ-09128	11 400,00
Main board for ES-1080 N.720	ZZZ-09120	14 100,00
Power board ES-1080FFS NO.718	ZZZ-09125	9 450,00
Transceiver PCB 38KHZ -650-38 ZPB2900	ZZZ-09020	7 598,00
TX/RX board for ES-1080F.N.719A	ZZZ-09121	7 650,00
Transducer plug 3 pin plug HS21P-3	ZZN-01044	227,00
ES2035 Fishery Echo Sounder		
Control PCB 2035B 50 kHz Z705	ZZZ-09111	3 150,00
Control PCB for 2035BF Z705-1	ZZZ-09112	3 150,00
External connection PCB 2035 Z708	ZZZ-09114	630,00
Main/power/inverter PCB 2035B Z704	ZZZ-09113	12 750,00
Transceiver 200 kHz for ES-2035F Z706C	ZZZ-09116	3 900,00
Transceiver 50 kHz 2035B Z706	ZZZ-09115	3 900,00
Filter for EF2035 Z3549D	ZZJ-02025	804,00
Front glass for ES-2035 P/N 34084	ZZJ-02029	645,00
Interface navigator plug 2035 ZFM14-5	ZZN-01048	278,00
Keytop for 2035 50 kHz ZZ33770C	ZZC-02050	390,00
Keytop for 2035 50/200 kHz Z33761C	ZZC-02049	390,00
Nonglare screen ES-1025/ES2035 Z33634C	ZZJ-02052	390,00
Plugg FM14-6P ESG120/2035	ZZN-01098	131,00
Potmeter for 2035 10K ZVB16L4	ZZV-02159	99,00
Potmeter for 2035 B1K ZVB16L4	ZZV-02158	99,00
Transducer plug 3 pin plug HS21P-3	ZZN-01044	227,00
Transducer plug EF2035F HS21P-5	ZZN-01047	180,00
Transducer temp. 400/2035 FM14-4P	ZZN-01073	69,00

Retail Pricelist 2012

<i>Bottom Equipment</i>	<i>Part number</i>	<i>Price NOK Retail</i>
TANK		
Installation kit for 50/200 kHz standard/combo tank	INSTKITTANK-SA	344,00
Installation kit for Aluminium combo tank	INSTKITALUC-SA	375,00
Transducer cable, junction box 1151/ZWR	ZZL-01019	978,00
Transducer mounting ring for ETN050(X)T IN ETNST Tank	ETN050SR	788,00
Transducer mounting ring steel for ETN200(X)T IN ETNST	ETN200SR	700,00
Tank, ice protection plate for ETNSTCI (Arctic tank). TC-2006	ETNARCPL	1 500,00
SEA VALVE		
Sea Valve mounting kit for DB-100-SA valve (O-Rings/Gaskets)	DB-100-SA-M-KIT	19 178,00
Sea Valve service kit for DB-100-SA valve (O-Rings/Gaskets)	DB-100-SA-S-KIT	3 592,00
Sea Valve mounting kit for DB-100-SB valve (O-Rings/Gaskets)	DB-100-SB-M-KIT	19 628,00
Sea Valve service kit for DB-100-SB valve (O-Rings/Gaskets)	DB-100-SB-S-KIT	4 042,00
Sea Valve mounting kit for SB-100-SA valve (O-Rings/Gaskets)	SB-100-SA-M-KIT	6 360,00
Sea Valve service kit for SB-100-SA valve (O-Rings/Gaskets)	SB-100-SA-S-KIT	2 692,00
Sea Valve mounting kit for SB-100-SB valve (O-Rings/Gaskets)	SB-100-SB-M-KIT	6 810,00
Sea Valve service kit for SB-100-SB valve (O-Rings/Gaskets)	SB-100-SB-S-KIT	2 692,00
Sea Valve mounting kit for SB-60 valve (O-rings/Gaskets)	SB-60-M-KIT	5 202,00
Sea Valve service kit for SB-60 valve (O-Rings/Gaskets)	SB-60-S-KIT	1 624,00
Sea Valve, kit for SB to DB upgrade	SY-SBDBKIT	15 022,00

Retail Pricelist 2012

SPARE PARTS OBSOLETE PRODUCTS

<i>ED161 Navigational Echo Sounder</i>	<i>Part number</i>	<i>Price NOK Retail</i>
AVR protection board, PB161-130	ZZZ-08005	207,-
Chart drive motor contr. Board, PB161-128	ZZZ-08004	252,-
Ground isolator board, PB161-232	ZZZ-08016	975,-
Keyboard/Encoder board, PB161-126	ZZZ-08015	599,-
Main Contr. Board, PB161-103	ZZZ-08000	824,-
Motor sub contr. Board, PB161-602	ZZZ-08011	80,-
Power PCB with pins, BP161-127	ZZZ-08020	2 592,-
Power PCB with plugs, PB161-127	ZZZ-08002	2 592,-
Rectifier board 220VAC, PB161-141	ZZZ-08006	275,-
Recording ampl. PB802-109	ZZZ-05051	1 350,-
Scan motor contr. Board, PB603-601	ZZZ-05034	599,-
Transceiver PCB 50 kHz, PB161-50	ZZZ-08008	5 475,-
Feed stylus/Brush, ZEF-001/S	ZZP-01040	90,-
Flange for paper spool Z6000-131	ZZA-01003	39,-
Paper brake drive belt, Z603-135	ZZP-01025	63,-
Paper drive belt, Z603-136	ZZP-01026	99,-
Penbelt for ED161, ZBF24x08x420	ZZP-01019	666,-
Recording paper for ED161, TP6	ZZF-01001	108,-
Recording stylus, Z2162 in box of 20pc	ZZP-01002-SA	1 620,-
Scale ED161- meters	ZZQ-02029	99,-
Scanning drive belt, Z701-305	ZZP-01027	54,-
Alarm buzzer SDB-9V	ZZA-01091	315,-
Chart speed contr/TVGcontrol ZBOAS15B13	ZZV-02015	39,-
Dimmer control ZBODS25B13	ZZV-02052	50,-
Drive motor, JLN4N4B11/MYX	ZZO-01017	1 538,-
Frontwindow ED161-202	ZZJ-02011	632,-
Fuseholder FH-25 for ED	ZZR-01008	39,-
Gain control, 10K ON/OFF ZBODS25B14	ZZV-02053	50,-
KNOB K-5022B ZK-5022B	ZZA-01077	90,-
Line marker switch/810/802/701 ZMS-193Red	ZZV-02047	50,-
Spare parts kit 160-1 for ED161/162 (fuses, lamps, stylus pen, brush)	ZZS-01074	676,-
Power source selector ZMS174RED	ZZV-02049	99,-
Power transformer SZ13A	ZZS-01069	1 185,-
Range selector ZRE365R25W	ZZV-02065	116,-
<i>ED162 Navigational Echo Sounder</i>		
AVR protection board, PB161-130	ZZZ-08005	207,-
Chart drive motor contr. Board, PB161-128	ZZZ-08004	252,-
Ground isolator board, PB161-232	ZZZ-08016	975,-
Keyboard/Encoder board, PB161-126	ZZZ-08015	599,-
Main Contr. Board, PB161-103	ZZZ-08000	824,-
Memory board, PB162-124	ZZZ-08012	3 975,-
Motor sub contr. Board, PB161-602	ZZZ-08011	80,-
Power PCB with pins, BP161-127	ZZZ-08020	2 592,-
Power PCB with plugs, PB161-127	ZZZ-08002	2 592,-
Rectifier board 220VAC, PB161-141	ZZZ-08006	275,-
Recording ampl. PB802-109	ZZZ-05051	1 350,-
Scan motor contr. Board, PB603-601	ZZZ-05034	599,-
Scan speed calibre. & pulse length selection PCB ZPB162-125	ZZZ-08076	272,-

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<i>ED162 Navigational Echo Sounder (Continues)</i>	<i>Part number</i>	<i>Price NOK Retail</i>
Trigger board, PBDN6839X1A	ZZZ-08014	407,-
Feed stylus/Brush, ZEF-001/S	ZZP-01040	90,-
Flange for paper spool Z6000-131	ZZA-01003	39,-
Paper brake drive belt, Z603-135	ZZP-01025	63,-
Paper drive belt, Z603-136	ZZP-01026	99,-
Penbelt for ED162, ZBF24x08x420	ZZP-01034	666,-
Recording paper for ED162, TP6	ZZF-01001	108,-
Recording stylus, Z2162 in box of 10pc	ZZP-01002-SA	1 620,-
Scale ED162-metres ED162-M	ZZQ-02032	99,-
Scanning drive belt, Z701-305	ZZP-01027	54,-
Alarm buzzer SDB-9V	ZZA-01091	315,-
Chart speed control/TVG control ZBOAS15B13	ZZV-02015	39,-
Dimmer control ZBODS25B13	ZZV-02052	50,-
Drive motor, JLN4N4B11/MYX	ZZO-01017	1 538,-
Front window ED162-202	ZZJ-02012	632,-
Fuseholder FH-25 for ED	ZZR-01008	39,-
Gain control, 10K ON/OFF ZBODS25B14	ZZV-02053	50,-
Knob K-5022B for ED161/ED162	ZZA-01077	90,-
Line marker switch ZMS-193RED	ZZV-02047	50,-
Spare parts kit 160-1 for ED161/162 (fuses, lamps, stylus pen, brush)	ZZS-01074	676,-
Power source selector ZMS174Red	ZZV-02049	99,-
Power transformer SZ13A	ZZS-01069	1 185,-
Range selector ESRE366R25W	ZZV-02127	116,-
<i>ED165 Navigational Echo Sounder</i>		
PCB CPU, ED165CPU	ZED-01006	2 657,-
PCB Hall board, ED165HALL	ZED-01001	108,-
PCB Key board, ED165KEY	ZED-01005	1 772,-
PCB Pen board, ED165PEN	ZED-01004	324,-
PCB Lamp board, ED165LAMP	ZED-01003	432,-
Power and Terminal board, ED165PWR	ZED-01009	2 657,-
Rectifier board, ED165RCTF	ZED-01002	216,-
Transceiver board 200kHz, ED165TR200k	ZZZ-09104	1 875,-
Transceiver board 50kHz, ED165TR50k	ZED-01008	1 772,-
Brush, trailing contact	ZED-01025	65,-
Paper brake belt	ZED-01033	63,-
Paper Roll Core	ZED-01030	33,-
Paper Roll Cover	ZED-01031	18,-
Pen, recording stylus in box of 20pcs.	ZED-01024	2160,-
Ruler, scale	ZED-01029	65,-
Scan Belt	ZED-01026	345,-
Scan Driving Belt	ZED-01027	14,-
Scan Motor, 4B02	ZED-01018	1 253,-
Buzzer, EFM-282	ZED-01017	87,-
DC Motor, 34ZY1247	ZED-01019	165,-
DC Motor, 34ZY1247 w/Gearbox and Cogwheel	ZED-01034	1 377,-
Door Holder	ZZA-01073	165,-
Door Screw	ZED-01023	33,-
Panel Glass	ZED-01028	87,-
Switch, AC	ZED-01015	11,-
Switch, DC	ZED-01016	9,-

Retail Pricelist 2012

<i>CS-1026 Fishery Echo Sounder</i>	<i>Part number</i>	<i>Price NOK Retail</i>
Keyboard complete for ES1026	ZZZ-09087	3 300,00
Keyboard complete for ES1026 Version 2002	ZZZ-09086	3 300,00
Transceiver PCB 38 kHz	ZZZ-09094	2 700,00
Transceiver PCB 50 kHz for ES1026 - Version 2002	ZZZ-09081	2 700,00
Power plug for CS1026	ZZN-01025	72,00
Transducer plug for CS1026/627	ZZN-01026	99,00
<i>CS-1027 Fishery Echo Sounder</i>		
CPU PCB for CS-1027	ZZZ-09097	1 920,00
Keyboard PCB for CS-1027	ZZZ-09101	1 398,00
PCB neck for ES-1027	ZZZ-09110	270,00
Power PCB for CS-1027	ZZZ-09098	2 400,00
Transceiver PCB for CS-1027 38 kHz	ZZZ-09103	1 920,00
Transceiver PCB for CS-1027 50 kHz	ZZZ-09102	2 700,00
<i>ES7100 Fishery Echo Sounder</i>		
Nonglare screen for EF7100 Z3453C	ZZJ-02051	390,00
Transducer plug 3 pin plug HS21P-3	ZZN-01044	227,00

FOR PRICES AND AVAILABILITY OF OTHER SPARES,
PLEASE CONTACT SKIPPER Electronics AS.

**FOR INQUIRIES/ORDERS REGARDING SPARES, ALWAYS
INFORM THE SERIAL NUMBER OF THE UNIT.**

Retail Pricelist 2012

GENERAL TERMS

Prices:

The prices in this list cover delivery EXW Oslo, Norway.

Validity:

The quoted prices are valid for all products invoiced after 01.01.2012.
The prices may be changed without notice.

Terms of delivery:

Terms of delivery are EXW Oslo, Norway. IncoTerm 2000.

Terms of payment:**1 Net 30 days from date of invoice**

If nothing else has been agreed upon, payment should be made to:

SKIPPER Electronics AS
P. O. Box 151, Manglerud
0612 OSLO
NORWAY

DNB NOR AS
Stranden 1
N-0021 OSLO, NORWAY

IBAN: NO8771740500656

NOK acc/no: 7174.05.00656
Swift address: DNBA NO KK

SKIPPER Electronics AS is entitled to a finance charge of one (1) percent (%) per month if invoices are paid overdue.

2 Prepayment before shipment

SKIPPER Electronics AS will ship goods when payment is registered on their account, and verified by the bank.

3 CAD (Cash Against Documents)

NOK 1 000,- will be added for banking-administration charges.

Guarantee conditions:

SKIPPER gives 12 months limited guarantee on all deliveries from SKIPPER Electronics AS, Norway.

The guarantee period commences on the date the dealer invoices the customer, provided this invoicing takes place within twelve months from dispatch of the goods from SKIPPER. Our maximum guarantee period will thus be 24 months from dispatch of goods from SKIPPER Electronics AS, Norway.

In case SKIPPER does not receive a completed guarantee card, or installation report, the guarantee period commences at the date of SKIPPER's invoice.

Under the guarantee, SKIPPER will replace or repair parts which have become defective due to material or production faults free of charge to the buyer. Cost of parts and labour except overtime expenses is included in the guarantee terms, while transport of parts is for the account and risk of the buyer. Should the guarantee service take place outside the premises of SKIPPER or the dealer, all travelling, waiting and living expenses will be debited the buyer. The buyer will also be debited any costs connected with docking of the vessel, emptying and steaming of tanks, diving work and other precautionary measures, which may be necessary for the carrying out of the guarantee work.

SKIPPER's guarantee is not valid:

- A: If payments have not taken place according to contract.
- B: If faults occur, due to carelessness or incorrect operation or installation (Commissioning) of the equipment.
- C: If the equipment has been rebuilt or if parts other than the original parts from SKIPPER have been inserted.

The buyer has no right to claim for any loss he might have due to faults which occur or have occurred to SKIPPER equipment.

The buyer has no right to other claims, such as cancellation, reduction in price, etc. unless SKIPPER within a reasonable time does not remedy the defect.

Promotion support:

In special cases SKIPPER may cover up to 50 % of advertisement cost on SKIPPER advertisements, limited to 2 % of yearly SKIPPER-related turnover. Coverage is subject to prior agreement in each individual case. Several ready-made promotional advertisements are obtainable from SKIPPER.

How to contact SKIPPER Electronics AS

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Fax: +47 23 30 22 71
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NORWAY