	XL	BRW-2	BW
Types:	XL72, XL96, XL144, XL192	BRW-2	BW144, BW192
Panel cutout according to DIN:	Q72, Q96, Q144, Q192	–	–
Pointer deflection:	180°, 240°, 300°, 360°	180°, 240°, 300°, 360°	180°, 240°, 300°, 360°
Protection IP52/IP54:	IP52	–	–
Protection IP66:	On request	✓	✓
Built-in dimmer:	–	✓	✓
Long life LED illumin.:	✓	✓	✓
Accuracy class:	0.5	0.5	0.5
Scale base colour:	White or black	White or black	White or black
Figures, div. lines:	Black, yellow, red, green, etc.	Black, yellow, red, green. etc.	Black, yellow, red, green. etc.
Pointer:	Yellow illuminated or black shadow	Yellow illuminated or black shadow	Yellow illuminated or black shadow
Interface:	Analogue or CANopen	Analogue or CANopen	Analogue or CANopen
Type approved by:	MED	MED	MED

	Panorama Rudder Indicator	Panorama Rudder Indicator	Rudder Angle Transmitter
Types:	TRI-2 (Ø370)	TRI-2 CAN (Ø370)	RT-2
Panel cutout according to DIN:	–	–	–
Pointer deflection:	3 × 90°	3 × 90°	0…90°, 0…140°
Protection IP52/IP54:	IP54	IP54	–
Protection IP66:	–	–	IP66
Built-in dimmer:	✓	✓	–
Long life LED illumin.:	✓	✓	–
Accuracy class:	1.5	1.0	0.5
Scale base colour:	White or black	White or black	–
Figures, div. lines:	Black, yellow, red, green, etc.	Black, yellow, red, green, etc.	–
Pointer:	Black or yellow	Black or yellow	–
Interface:	Analogue	Single CAN, dual CANopen Prepared for NMEA2000®	0…20mA or 4…20mA
Type approved by:	MED, CCS, GOST-R	MED, CCS, GOST-R	CCS, GL, GOST-R

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	WSS	WSS-L	WSDI-2	
Description:	Wind Sensor Static	Wind Sensor Static	Display	
Supply voltage:	12V DC ±20%, max. 1.1A 24V DC ±20%, max. 0.6A	12V DC ±20%, max. 1.1A 24V DC ±20%, max. 0.6A	12/24V DC	
Internal heater:	✓	–	–	
Interface:	RS485 NMEA0183	RS485 NMEA0183	RS485 NMEA0183	
Measure:	**Relative Wind Speed** Range: 0…99.9 KTS Resolution: 0.1 KTS Response time: 1.0s **Direction** Range: 0…360° Resolution: 1° Accuracy: ±3° Response time: 1.0s	**Relative Wind Speed** Range: 0…99.9 KTS Resolution: 0.1 KTS Response time: 1.0s **Direction** Range: 0…360° Resolution: 1° Accuracy: ±3° Response time: 1.0s	**Speed** M/S Knots Beaufort **Direction** ±180°	
Display:	–	–	Speed: 4-digit 7-seg. display Direction: Analogue pointer	
Built-in dimmer:	–	–	✓	
Protection (IP):	IP66 (EN60529)	IP66 (EN60529)	IP66 (front) IP20 (terminals)	
Temperature range:	Operating -52°C …+60°C Storage: -60°C …+70°C RH: 0…100% Pressure: 600…1100hPa	Operating: 0°C…+60°C	–	
Dimensions:	12 × 12 x 19 cm	19 × 12 cm	17.2 × 17.2 × 7 cm	
Weight:	0.8 kg	0.8 kg	0.55 kg	
Approvals:	GL, DNV, CCS, GOST, RS Pending: RRR	GOST	Pending (CCS, DNV, GL, GOST, RS)	
Accessories:	IP66 connection box kit for cable extension IP67 connector kit for cable extension Extension cable 1…300 metres	IP66 connection box kit for cable extension IP67 connector kit for cable extension Extension cable 1…300 metres	IP66 rear cover NCI-1 NMEA interface box	

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	WSDI	WSI		
Description:	Indicator	Interface box		
Supply voltage:	110 or 230V AC 50-60Hz	24V DC, 0.9A (+30% -25%)		
Heater:	–	–		
Supply internal heater:	–	–		
Interface:	RS422	TTL		
Measure:	Input: TTL Speed, dir. Output: RS422 NMEA0183	Input: RS485 NMEA0183 Output: 30V DC 0.6A to WSS / WSS-L Output: TTL 5V to WSDI		
Display:	Speed: 2½-digit 7-seg. display Direction: 64 LED I circle	–		
Built-in dimmer:	✓	–		
Protection (IP):	IP52 (front) IP20 (terminals)	IP40 (front) IP20 (terminals)		
Temperature range:	–	–		
Dimensions:	14.5 × 14.5 × 11 cm	10 × 7.5 × 11 cm		
Weight:	0.8 kg	0.45 kg		
Approvals:	GOST	GOST		
Accessories:	External dimmer unit/panel (1033290002)	DCP-2405 24V DC power supply (1240020003)		

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