

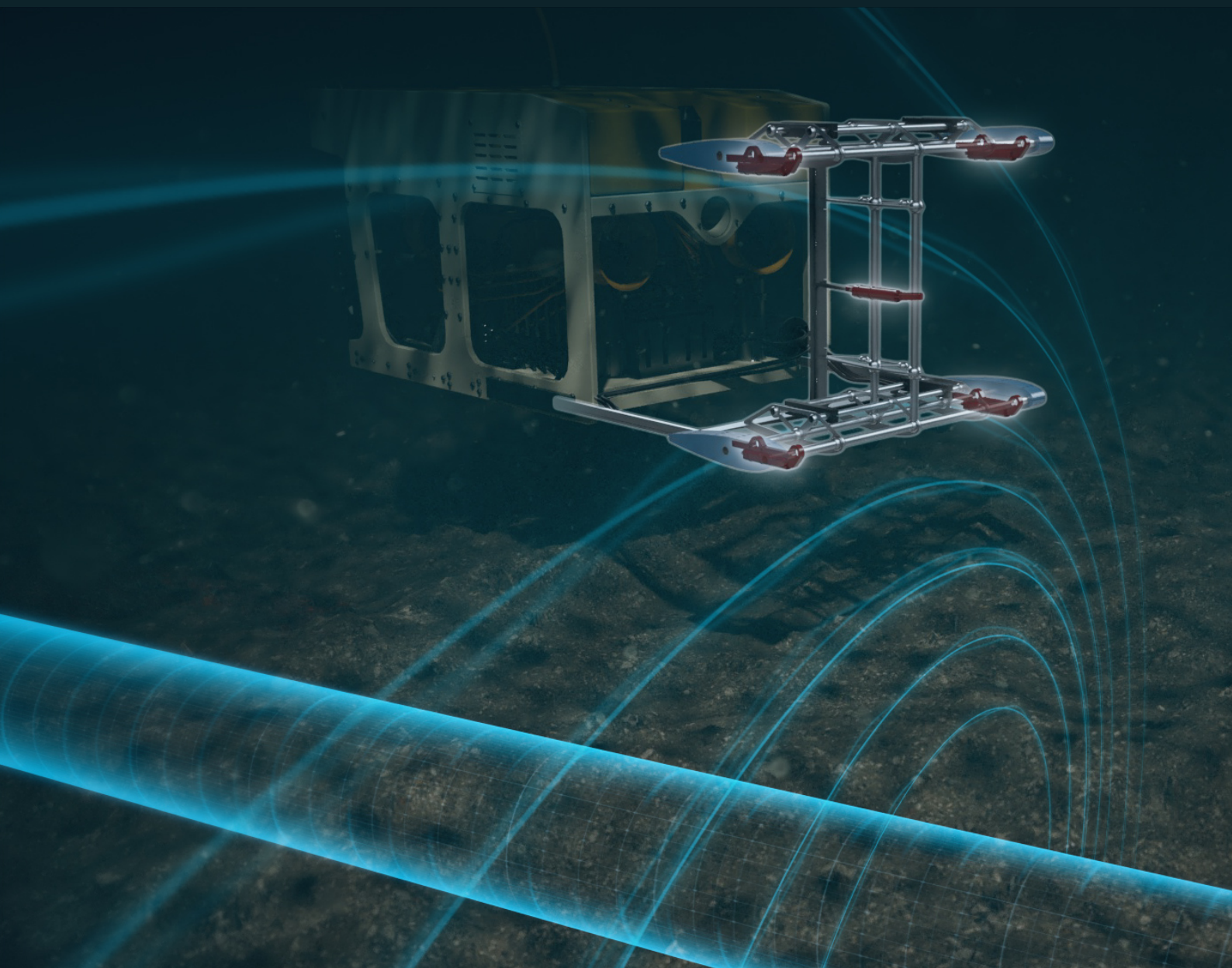
A wide-angle photograph of an offshore wind farm at sunset. The sky is a gradient of orange and pink, and the water is dark with gentle ripples. In the distance, a line of wind turbines stretches across the horizon. In the foreground on the right, a small white and red navigational buoy is visible. The word 'seekable' is overlaid in white lowercase letters, with a decorative graphic of white dots and circles to its right.

seekable

**ELECTRO-MAGNETIC
CABLE TRACKING**

OUR (UNIQUE) SELLING POINTS:

- Measurement of modern AC and DC cables
- Detection of active and toned cables
- Tracking above and beside the cable
- Detection range of 10+ meters
- Advanced post-processing capabilities
- Automated multi-frequency tracking
- Adjustable 5Hz output. Guaranteed 1m computed data density
- Seamless integration with ROVs & AUVs
- Pipeline tracking with tone injected signals
- Simultaneous magnetometer survey



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Spec Sheet

System	Detection Range	Cable detected at vertical range up to 15m and within a total horizontal swath width of 20m
	Vertical measurement accuracy (1 σ)	5cm or 2% of slant range – whichever is greater. Stated accuracy applies within the quality envelope (10m total distance to the cable)
	Horizontal measurement accuracy (1 σ)	5cm or 2% of slant range – whichever is greater. Stated accuracy applies within the quality envelope (10m total distance to the cable)
	Depth of Burial estimation	Measured from seabed with integrated or external altimeter
	Cable position output rate	5Hz
	Sensor Platforms	Any: eg. ROV, AUV, USV, vessel fixed or on fall pipe, towed wing or sled
	Synchronization	Standalone, or synchronized to applied PPS
	Max. survey speed	4 knots
	Modes	Live (50 Hz / 60 Hz) & Toned
	Tone frequency range	5 Hz...1000Hz
	Minimum detectable AC magnetic field strength for target positioning	15 mA/m @ 100Hz
Top Unit	Dimensions	400 x 330 x 170 mm
	Weight	Approx. 7 kg
	Host I/O	Voltage/Lan: DBH13F, Ethernet, SD Reader
	Voltage input	230 VAC / 110 VAC / 12 VDC ... 36 VDC
	Power consumption	180W max
	Shock resistance	Operating: better than 5g for <10ms Non-operating: better than 40g for <10ms
Data Acquisition	MX3D UW DAU	
	Dimensions	Diameter: 98 mm, Length (w/o connector): 324 mm, Volume: 1,694 Liters
	Weight (Air/Water/Salt Water)	2,950 g / 1,250 g / 1,210g
	Number of 3D Magnetometer	5
	Number of submerged AUX ports	2x RS232. 1x occupied by AHRS sensor if using. 1x spare/ future CTD sensor or alternative
	Sampling Rate	2000Hz
	Resolution (ADC)	24bit
	Start-up current	2.5A (restricted)
	Power Supply	10...32 VDC
	Current consumption	10W
	Ethernet Cable Length	max 100 m (min. Cat6), extendable via DSL modem
	Bandwidth requirements	approx. 750 kbit/s
	Connectors	7x Subconn MCBH8F, 1x Voltage/Lan: DBH13M

Magnetometer	FGM3D/100 UW II	
	Length	263 mm
	Diameter	45 mm
	Measurement Range	$\pm 100,000$ nT
	Noise	<15 pTrms/ $\sqrt{\text{Hz}}$ @ $f = 1$ Hz
	Bandwidth	2000 Hz
	Power Supply	$\pm 12... \pm 15$ V
	Current Consumption	± 26 mA
	Cable Length to MX3D UW DAU	0.5m-100m
	Connector	Subconn MCBH8M
	Weight (Air/Water/Salt Water)	444 g / 188 g / 182 g
Altimeter + AHRS +	ISA 500	
Temperature	Digital Communication	RS232 & RS485
	Protocol	300 to 115200 baud
	Data Rate	Up to 10Hz
	Input Voltage	9 to 36V DC
	Power	51mA @ 24 DC
	Weight (Air/Salt Water)	300 g / 110g
	Depth Rating	1,000 m
	Connector	Subconn MCBH8M
Acoustic	Frequency	500kHz
	Range	0.1 to 120 m
	Resolution	1 mm
	Beam Angle	6° conical
	Signalling	Monotonic
Heading	Accuracy	$\pm 1^\circ$
	Resolution	0.1°
Attitude	Pitch Range	$\pm 90^\circ$
	Roll Range	$\pm 180^\circ$
	Accuracy	$\pm 0.2^\circ$
	Resolution	0.1°
Temperature	Accuracy	$\pm 0.5^\circ$
	Resolution	0.1°C

