

TrackDyne VigilArc Array



Direction-Finding Antenna

Technical Specifications

PARAMETER	VALUE
Dimensions (Ø × h)	64 × 128 mm
Weight (dry)	0.44 kg
Max. operating depth	40 m
Max. operating range	3 000 m
Horizontal AoA accuracy (typ.)	±1°
Slant range resolution	0.15 m
Working vertical angles	0° – 85° from horizontal
Tilt compensation (pitch/roll)	±30°
Acoustic source level	170 dB re 1 µPa @ 1 m
Carrier frequency	20 100 Hz
Max. simultaneous responders	16
Power consumption (Rx / Tx)	0.5 W / 10 W
Depth sensor accuracy	0.1 m
Temperature sensor accuracy	0.1 °C
Interface	USB(COM) 9 600 bit/s
Protocol	NMEA 0183 PAZM
Cable length (std.)	10 m
Working temperature	–5 ... +50 °C

TrackDyne VigilArc Tag



Responder Beacon

Technical Specifications

PARAMETER	VALUE
Dimensions (Ø × h)	64 × 62 mm
Weight (dry, w/o battery)	0.30 kg
Depth rating	300 m
Depth resolution	0.6 m
Max. operating range	3 000 m
Acoustic source level	170 dB re 1 µPa @ 1 m
Carrier frequency	20 100 Hz
Temperature sensor accuracy	0.1 °C
Max. addresses	16
Power consumption (Rx / Tx)	0.33 W / 10 W
Supply voltage	12 V
Data lines voltage	0 – 3.3 V
Interface	USB(COM) 9 600 bit/s
Protocol	NMEA 0183 PAZM
Cable length (std.)	1 m
Battery life (SB-24-48-LF)	Up to 70 h Rx / 8 h (1 ping/3 s)
Working temperature	–5 ... +50 °C

TrackDyne VigilArc Deck



Power & Interface Unit

Technical Specifications

PARAMETER	VALUE
Dimensions (l × w × h)	260 × 210 × 110 mm
Weight	2.5 kg
Protection class	IP67
Built-in battery	LiFeP04, 40 Wh
Battery life (powering Array)	8 h
External supply voltage	12 V ±2 V
Connectors	USB-B × 2, RS-422 full-duplex × 1, RS-422 TX-only × 2
Working temperature	-10 ... +50 °C