

Signature VM Ocean - 100|75/55 kHz

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ADCP

VM ADCP

Echo Sounder

Nortek 100kHz VM ADCP

55kHz VM ADCP

Highlights

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- [/] VM
- [/] (75kHz) 1000m
- [/] 4 300m 100Hz
- [/]

Applications

- [/]
- [/]
- [/] (100)
- [/] (55kHz) (100)
- [/] (55)

Technical specifications

[arrow] image not found or type unknown **Signature VM 100 kHz**

**

300-400 m

3-15 m

200

2

1.0% of the measured value \pm 0.5 cm/s

0.1 cm/s

1 Hz (1/3 Hz with BT and echosounder)

5 m/s

4 20°

**)

[arrow]

- Signature VM 75/55 kHz

** 685/1000 m
6-20 m
200
2
1.0% ± 0.5 cm/s
0.1 cm/s
1 Hz (1/3 Hz at max power)
5 m/s
3 slanted at 20°

**)

[arrow]

- Signature VM 100 kHz

3 m/s TBA
TBA
5 m
560 m
0.01 mm/s
1 Hz (1/3 Hz with VP and echosounder)

[arrow]

- Signature VM 75/55 kHz

3 m/s TBA
TBA
50 m
1200 m
0.01 mm/s
1 Hz

[arrow]

() - Signature VM 100 kHz

/ 0.5 dB/70 dB
70 dB

[arrow]

() - **Signature VM 100 kHz**

100 kHz
4 slanted at 20°
6.1°

[arrow]

() - **Signature VM 75/55 kHz**

/ 0.5 dB/70 dB
70 dB slanted beams
75 and 55 kHz
3 slanted at 20°
4.5°-5.5°

[arrow]

Echosounder - Signature VM 100 kHz

1 vertical
70-120 kHz
1 Hz (1/3 Hz with VP and BT)
15° @ 70 kHz, 8.7° @ 120 kHz
0.375 -4 m

/ 0.01 dB/130 dB
70 kHz, 90 kHz 120 kHz chirp(90 kHz, 50% BW
7.5-120 W adjustable

Chirp

[arrow]

Echosounder - Signature VM 75/55 kHz

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

/

[arrow]

Echosounder - Signature VM 75/55 kHz

Chirp N/A

[arrow]

- Signature VM 100 kHz

/ -4 °C to 40 °C / 0.1 °C

0-1500 m (inquire for options)

/ 0.1% / 0.002%

16 GB (inquire for options)

30 m ()

IO Ethernet

DC 15-48 V DC

[arrow]

- Signature VM 75/55 kHz

/ -4 °C to 40 °C / 0.1 °C

0-1500 m (inquire for options)

/ 0.1% / 0.002%

16 GB (inquire for options)

30 m ()

IO Ethernet

DC 48 V DC

[arrow]

- Signature VM 100 kHz

460 mm

350 mm

[arrow]

- Signature VM 75/55 kHz

650 mm

314 mm

[arrow]

-4 °C to 40 °C

-20 °C to 60 °C

IEC 60068-1/IEC60068-2-64

EMC IEC 61000

1500m-

MCBH6F (Ethernet)

POM

[arrow]

/ Intel i5/8 GB

SSD, 500 GB

Windows® 10

Half 19" 2 HE case or 19" rack-mountable 1 HE

265x110x340 mm or 480x45x325 mm

24 V DC, 20 W typical

5.75 or 3.80 kg

Power, Signature ADCP, AN_GNSS, 2x HDMI, 2xLAN, 3x USB, 1x RS-232 (optional)

[arrow]

Nortek Signature VM

Signature VM - , GNSS compass -

< 0.6 s, IEEE1588/PTP for absolute time stamping (GNSS/Signature VM)

Signature VM (partly) GNSS Advanced navigation

Echo sounder

Signature VM + AN_GNSS

NMEA CSV,ASCIIVMT,MATLABVMT,MATLAB,KML

[arrow]

GNSS

Advanced Navigation GNSS compass

dGNSS)/0.6 m/0.01 m, : 1.0 m/0.02 m

Heading 0.2 °/ 0.09°

[arrow]

GNSS

GPS L1, GLONASS G1, GALILEO E1, BeiDou B1

RTKGPS L1_L2, GLONASS G1_G2, GALILEO E1_E5b, BeiDou B1_B2

9-axis IMU

Ethernet 10/100

PTP,NTP

NMEA 0183, AN Packet protocol, TSS1, Simrad

[arrow]

AHRS

± 2 g

$\pm 250^\circ/\text{sec}$

± 1.3

$/\pm 90^\circ$ (), $\pm 180^\circ$ ()/ 0.01°

$\pm 2^\circ$ ()3), $\pm 0.5^\circ$ (, $\pm 30^\circ$)

/ 360° , / 0.01°

$\pm 3^\circ$ ()3), $\pm 2^\circ$ (, $< 20^\circ$)