



HIGH PRECISION NORTH SEEKER SENSOR



NF1000 TACTICAL GRADE

MEME based North Seeker Sensor

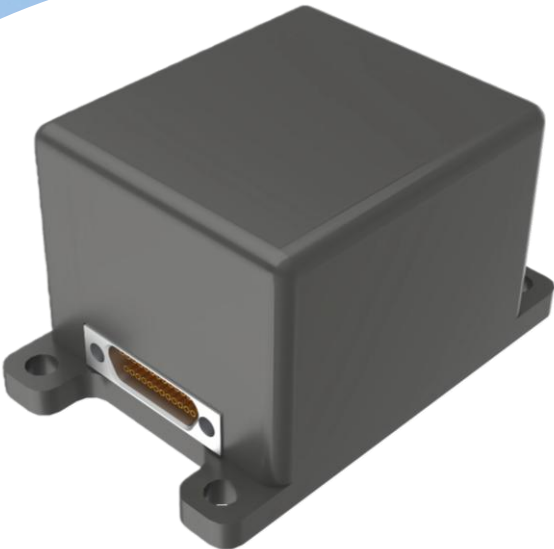
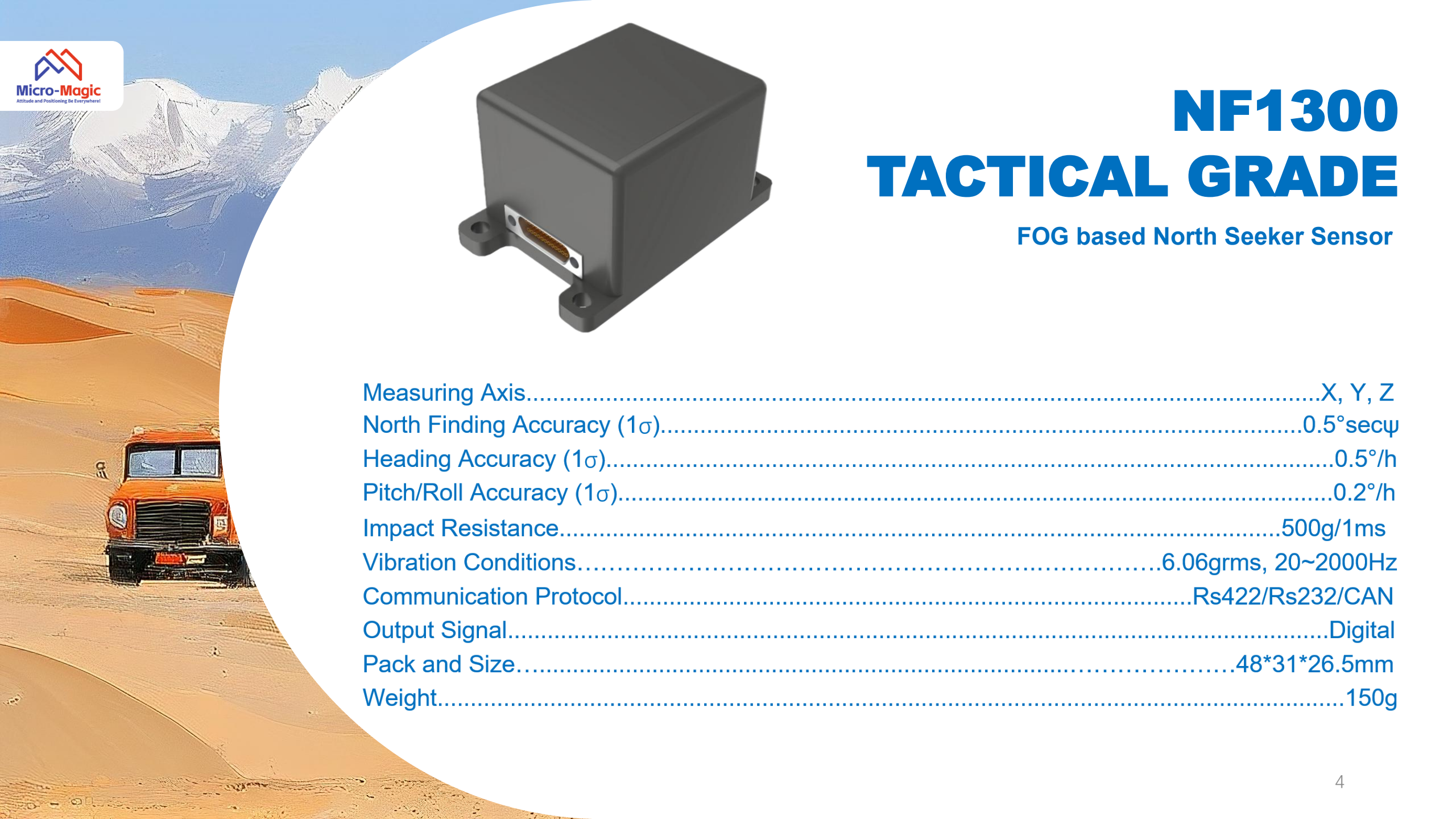
# Axis.....	Single
North Finding Accuracy (1 σ).....	1°sec ψ
Heading Maintenance Accuracy (1 σ).....	0.5°/h
Pitch/Roll Accuracy (1 σ).....	0.2°/h
Impact Resistance.....	1000g,10ms,1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	Φ31.8*85mm
Weight.....	400g
Power Consumption.....	≤1.5W

NF1200 TACTICAL GRADE

MEMS combined North Seeker Sensor



Measuring Axis.....	X, Y, Z
North Finding Accuracy (1 σ).....	0.5°sec ψ
Heading Accuracy (1 σ).....	0.5°/h
Pitch/Roll Accuracy (1 σ).....	0.05°/h
Impact Resistance.....	500g/1ms
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422/
Output Signal.....	Digital
Pack and Size.....	47*47*35.5mm
Weight.....	100g



NF1300 TACTICAL GRADE

FOG based North Seeker Sensor

Measuring Axis.....	X, Y, Z
North Finding Accuracy (1 σ).....	0.5°sec ψ
Heading Accuracy (1 σ).....	0.5°/h
Pitch/Roll Accuracy (1 σ).....	0.2°/h
Impact Resistance.....	500g/1ms
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422/Rs232/CAN
Output Signal.....	Digital
Pack and Size.....	48*31*26.5mm
Weight.....	150g

NF1500-A/B

TACTICAL GRADE

FOG+MEMS combined North Seeker Sensor



# Axis.....	Single
North Finding Accuracy (1σ).....	$0.5^\circ \text{sec}\psi$
North Finding Time.....	3 min
Heading Maintenance Accuracy (1σ).....	$1^\circ/0.5\text{h}$
Impact Resistance.....	1000g, 10ms, 1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	70*70*100mm
Weight.....	0.55Kg
Power Consumption.....	$\leq 8\text{W}$



NF1700 TACTICAL GRADE

FOG based North Seeker Sensor

# Axis.....	Single
North Finding Accuracy (1 σ).....	0.1°sec ψ
North Finding Time.....	3 min
Resolution.....	0.01°/h
Pitch/Roll Accuracy (1 σ , range $\pm$ 15°).....	0.1°/h
Impact Resistance.....	1000g, 10ms, 1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	125*109*130mm
Weight.....	1.2Kg
Power Consumption.....	$\leq$ 20W

NF2000-A/B

TACTICAL GRADE

FOG based North Seeker Sensor



# Axis.....	Single
North Finding Accuracy (1 σ).....	1/0.5°sec ψ
North Finding Time.....	5 min
Heading Accuracy (1 σ).....	0.2°/h
Pitch/Roll Accuracy (1 σ).....	0.1/0.09°/h
Position Accuracy.....	0.8/1.2nm/h
Impact Resistance.....	30g,8~11ms,1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	200*100*90mm
Weight.....	2Kg
Power Consumption.....	≤12W



NF3000-A/B/C TACTICAL GRADE

FOG based North Seeker Sensor

# Axis.....	Single
North Finding Accuracy (1 σ).....	0.02/0.06/0.1°sec ψ
North Finding Time.....	5/5/3 min
Heading Accuracy (1 σ).....	0.01°/h
Pitch/Roll Accuracy (with measurement rage -15°~ +15°, 1 σ).....	0.02/0.06/0.1°/h
Impact Resistance.....	30g,8~11ms,1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	248*248*180mm
Weight.....	8/6/5Kg
Power Consumption.....	≤50W

GT50 TACTICAL GRADE

Gyroscope Theodolite Sensor



Measuring Axis.....	X, Y, Z
North Finding Accuracy (1σ).....	5"
North Seeking Time (average).....	12min
Applicable range.....	75°S ~ 75°N
Instrument calibration cycle.....	12month
Communication Protocol.....	Rs232C
Output Signal.....	Digital
Pack and Size.....	415*415*800mm
Weight.....	16Kg



NF3000G-A/B/C TACTICAL GRADE

FOG based North Seeker Sensor

# Axis.....	Single
North Finding Accuracy (1 σ).....	0.02/0.06/0.1°sec ψ
North Finding Time.....	5/5/3 min
Heading Accuracy (1 σ).....	0.01°/h
Pitch/Roll Accuracy (with measurement rage -65°~ +5°, 1 σ).....	0.02/0.06/0.1°/h
Impact Resistance.....	30g,8~11ms,1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	248*248*180mm
Weight.....	8/6/5Kg
Power Consumption.....	≤50W
GNSS Support.....	Single Antenna

NF3500-A/B

TACTICAL GRADE

FOG based North Seeker Sensor



# Axis.....	Three
North Finding Accuracy (1σ).....	0.3/0.5°sec ψ
North Finding Time.....	5 min
Pitch/Roll Accuracy (1σ).....	0.1°/h
Impact Resistance.....	30g, 8~11ms, 1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422/Rs232
Pack and Size.....	80*80*74mm
Weight.....	0.9Kg
Power Consumption.....	≤12W



NF3700-A/B TACTICAL GRADE

FOG based North Seeker Sensor

# Axis.....	Three
North Finding Accuracy (1 σ).....	0.3/0.5°RMS
North Finding Time.....	5 min
Repetitiveness.....	$\leq \pm 0.2^\circ$
Pitch/Roll Accuracy (1 σ).....	0.1°/h
Impact Resistance.....	10~20g, 8~11ms, 1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	85*90*100mm
Weight.....	1.5Kg
Power Consumption.....	15~20W

NF4030

NAVIGATION GRADE

FOG based North Seeker Sensor



Measuring Axis.....	Z
North Finding Accuracy (1 σ).....	0.05°sec ψ
Heading Accuracy (1 σ).....	0.05°/h
Pitch/Roll Accuracy (1 σ).....	0.003°/h
Impact Resistance.....	500g/1ms
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422/RS232/CAN
Output Signal.....	Digital
Pack and Size.....	118*104*107mm
Weight.....	2Kg





NF5000 NAVIGATIONA GRADE

FOG based North Seeker Sensor

# Axis.....	Single
North Finding Accuracy (1 σ).....	0.05°sec ψ
North Finding Time.....	3 min
Pitch/Roll Accuracy (1 σ).....	0.05°/h
Impact Resistance.....	30g,8~11ms,1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	220*220*215mm
Weight.....	6Kg
Power Consumption.....	30W

NF7700

NAVIGATION GRADE

FOG based North Seeker Sensor



# Axis.....	Single
North Finding Accuracy (1 σ).....	0.01°sec ψ
North Finding Time.....	6 min
Pitch/Roll Accuracy (1 σ , measurement range $\pm 15^\circ$).....	0.05°/h
Impact Resistance.....	30g, 8~11ms, 1/2 sine
Vibration Conditions.....	6.06grms, 20~2000Hz
Communication Protocol.....	Rs422
Pack and Size.....	220*200*215mm
Weight.....	8Kg
Power Consumption.....	30W



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**Unmanned Aerial
Vehicles**



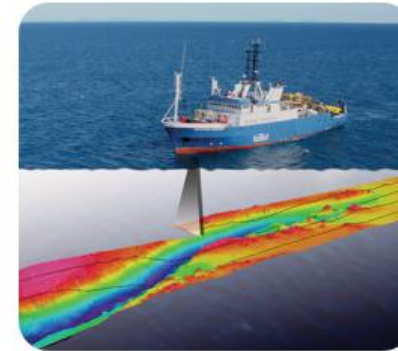
Satellites



Autonomous Vehicles



**Remotely Operated
Underwater Vehicles**



**Maritime Echosounder
Application**



**Petroleum Extraction
and Exploration**