

( )  
INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION  
(ISC)

**ISO 12188-1—  
2021**

**1**

**(ISO 12188-1:2010, IDT)**

**2021**

1.0 «  
 1.2 «  
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 2 , 5  
 3 ,  
 ( 30 2021 . 130- )  
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no ( 3166) 004-97	( 3166) 004—97	
	AM BY KG RU UZ	« »

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 2021 . 451- ISO 12183-1 —2021  
 1 2022 .  
 5 ISO 12188-1:2010 «  
 1.  
 » («Tractors and machinery for agriculture and forestry — Test procedures for positioning and guidance systems in agriculture — Part 1: Dynamic testing of satellite-based positioning devices». IDT).

ISO/TC 23 « (ISO)

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ISO, 2010 —  
 © . 2021



1	.....	1
2	.....	1
2.1	, .....	1
2.2	, .....	2
3	.....	2
3.1	.....	2
3.2	.....	3
3.3	.....	3
4	.....	4
4.1	.....	4
4.2	.....	4
4.3	.....	5
4.4	.....	5
4.5	.....	6
4.6	.....	6
( )	.....	7
	.....	8



Tractors and machinery for agriculture and forestry. Test procedures for positioning and guidance systems in agriculture.  
Part 1. Dynamic testing of satellite-based positioning devices

— 2022—01—01

1

(GNSS). , GPS, Galileo , , , , , .

2

8

2.1

2.1.1 ; PD (positioning device): , -

2.1.2 ; NDR (navigation data record): -

2.1.3 ; (travel course):

2.1.4 ; RNS (reference navigation system): -

PD , PD. (geographic coordinates): ,

2.1.6 (travel speed): , .

2.1.7		(course over ground):	-
		NMEA 0183.	
2.1.8	(time):	(UTC)	
NMEA0183.			
2.1.9		(initialization time):	-
2.2			
2.2.1		(off-track error):	-
2.2.2		(horizontal position error):	-
2.2.3		(vertical position error):	-
2.2.4	(latency):		
2.2.5	[ ]		
(absolute horizontal [vertical] positioning accuracy):			-
2.2.6	[ ]		
(relative horizontal [vertical] positioning accuracy):			-
2.2.7		(short-term dynamic accuracy):	-
15-			
2.2.8		(long-term dynamic accuracy):	-
24 .			
2.2.9	U- 180 .	(U-turn accuracy):	-
3			
3.1			
a)	( )		
	U- 90		U- 35 55
5 10		180'	
		1 .	
8	50		10
b)			

c)

d) RNS

(HDOF).

( 10 )

$\pm 1 / .$

RNS.

e)

0

( )

1 .

3.2

3.2.1

5

3.2.2

3.2.3

1 .

(0.110,05). (2.5  $\pm$  0.2) (5,0  $\pm$  0,2) / .

25 ( 24

).

3.3

3.3.1

U-

3.3.2

60 . ( 180" ( ) .  
(1.0 / ). ) .

1 . 3-  
13 .

4

4.1

4.1.1

75 %

4.1.2

3.2.3.

4.1.3

/ ) (

4.1.4

.95 %-

a)

b)

c)

( .2.1.8)

d)

e)

f)

4.1.5

4.2

4.2.1

( \*SJ.



4.2.2

4.2.3

4.2.4 ( \* S<sub>x</sub>).

4.2.5

15-  
50-  
30  
25 %  
30

4.2.6

50-

4.2.7 U- U-

4.2.8 ( ) 20 ( ) [ ^2( +5 ) ].

4.3

4.4

( S<sub>x</sub>).

4.5

( \* SJ.

-

4.6

[

(PPS) —

-

]

-

( )

:

6) "-----rs--- « #  
100,

F^, F^ —

1000

*h* —

*b* —

1

1 —

6

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1ERS Conventions (2003)	EU	6 378 137	6 356 751.858 0
GRS-80 <sup>b</sup>	Galileo	6378 137	6 356 752.314 1
WGS 84	GPS	6378 137	6 356 752.314 2
PZ-90.02 <sup>d</sup>	GLONASS	6378 136	6 356 751.361 8
(2003).			
1980. (1984). GLONASS.			
<sup>d</sup>			

[1] NMEA0183 Interface Standard<sup>1</sup>

, Sevema Park , .

631.171:006.034:006.354

35.240.99.65.060.01

IDT

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27.0S.2021

1S.06.202t.

60\*84%.

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