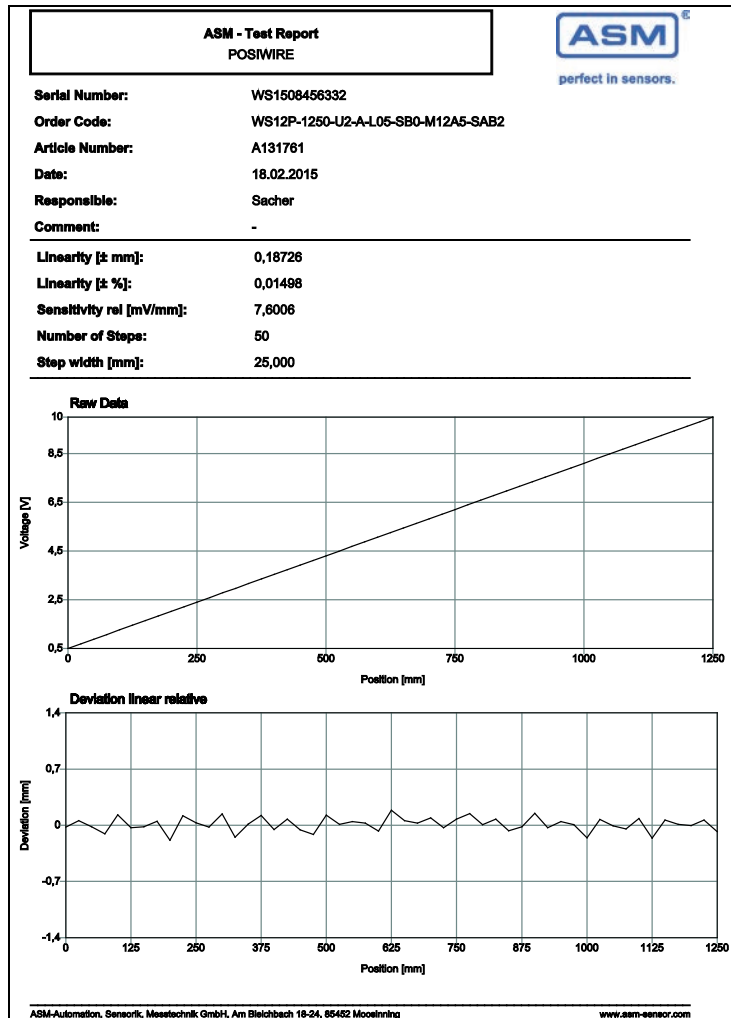


Measurement protocol and manufacturers test certificate (ISO9001)

Measurement protocol document

ASM carries out a full and complete calibration procedure on all new position sensors manufactured to ensure all units meet the required performance parameters and to maintain the highest quality standards. Each sensor is checked using state-of-the-art measuring equipment which is fully traceable to national standards. All test results are recorded. A Measurement Protocol Document and a Manufacturers Test Certificate can be issued for each sensor supplied to a customer. Both can be ordered with a new sensor or will be supplied when the sensor is re-tested. The recommended re-test period is 1 year.

A minimum of 50 measurement values are recorded at equidistant points along the sensors measurement range. These values are then processed to show the ideal "best-fit" line. The "best-fit" line and the measured values are shown on the graph. The sensitivity and linearity results are printed above the graph.



Order code

MESSPROTOKOLL – WS – 1 – 2 MM

1 Language

- D = German
- E = English
- F = French

2 Measurement range up to (mm)


1250 / 2500 / 5000 / 25000

Order example

MESSPROTOKOLL – WS – D – 5000 MM

Manufacturers test certificate

The Manufacturers Test Certificates produced by ASM meet the requirements of quality control standards ISO 9001, etc. The measurement system used and its traceability to national standards are fully described on the certificate and a record of all 50 measurement values is provided.

ASM-Calibration Certificate Nr.: 2015093963		 perfect in sensors.
POSIWIRE		
Serial No.:	WS1508456332	
Type of Transducer:	WS12P-1250-U2-A-L05-SB0-M12A5-SAB2	
Inspection equipment No.:	12345	
Date of calibration:	18.02.2015	
Number of pages	1	
Order No.:	KN 5564	
ASM Order No.:	KA121590	
Company:	Fa. Mustermann Musterweg 11 132456 Musterstadt	
Calibration Instruments:		
Physical value:	Inspection equipment	Calib. No. / Date / Valid.
Position:	Linear measurement module Inspection equipment No.: 08-016 Accuracy: ± 0,01%	08-016 / 23.12.2014 / 23.12.2015
	Laserinterferometer Renishaw ML 10 Serial No.: H24152 Inspection equip. No.: 08-010 Accuracy: ± 1,1 µm/m	H24152-140213-01 13.02.2014 / 13.02.2017
	Reference Laserinterferometer Serial No.: MTE/A197	Certificate of reference: NPL 2010080175-LL03
Measuring Signal:	Kelthley 2700 Serial No.: 1150749 Inspection equip. No.: 10-216 Accuracy: ± 0,35 mV	E24052 D-K-15070-01-02 20.11.2014 / 20.11.2015
Environmental:		
Temperature:	23°C ± 4°C	Humidity: 50 % ± 25 %
Calibration procedure:		
The transducer cable is moved over at least 90% of its measurement span. At least 50 points are measured and stored in the computer. The sensitivity of the best fitting line and the corresponding linearity error is calculated and printed.		
Result:		
Sensitivity of best fitting line:	7,6006 [mV/mm]	
Linearity: (related to best fitting line)	0,014981 [%] of F.S.	
Statement of conformity: Measured values are within the specification.		
1 measurement protocol is attached to this certificate		
This calibration certificate may not be reproduced other than in full except with the permission of ASM GmbH.		
Date: 23.02.2015	Responsible: Hermann	Person in charge: Sacher

Order code

ZERTIFIKAT - WS - 1 - 2 MM

1 Language

- D = German
- E = English
- F = French

2 Measurement range up to (mm)

1250 / 2500 / 5000 / 25000

Order example

ZERTIFIKAT - WS - D - 2500 MM