

Angefertigt am: 2003-04-24 durch: Ko

Gepr. u. herausgegeben: 2003-04-24 durch: Ko

Ersetzt Version vom: 2001-04-01

Verteiler: FG Sonic, GL

Dateiname

20191203_0111117432_factory_certificate.docx

Verzeichnis

Betriebshandbuch\VORDRUCKE

Factory certificate uSonic Ultrasonic anemometer

Model: uSonic-3 Sci H+
Serial number: 0111117432
Firmware version: 4.65c

Serial number	0111117432			
Test parameter	Nominal value	Measured values	passed/failed	Remarks
Path				
Path Length P1	1755 +/- 5	1757	passed	
Path Length P2	1755 +/- 5	1759	passed	
Path Length P3	1755 +/- 5	1757	passed	
Signal				
Signal overdrive P1	>10V		passed	Oscilloscope
Signal overdrive P2	>10V		passed	Oscilloscope
Signal overdrive P3	>10V		passed	Oscilloscope
Noise intensity P1	0 V +/-1.0 V _{pp}		passed	Oscilloscope
Noise intensity P2	0 V +/-1.0 V _{pp}		passed	Oscilloscope
Noise intensity P3	0 V +/-1.0 V _{pp}		passed	Oscilloscope
Power supply +/-12 VDC	+/-12 V +/-10%	11,86V/-11,90V	passed	
Power supply 30 VDC	30 V +/-10%	29,90V	passed	
Power supply 5 VDC	5 V +/-10%	4,93V	passed	
Power supply 7,5 VDC	7,5 V +/-10%	7,60V	passed	
Calibration parameter				
O1	2400 +/-250	2467	passed	
O2	2400 +/-250	2466	passed	
O3	2400 +/-250	2436	passed	
O4	2400 +/-250	2439	passed	
O5	2400 +/-250	2538	passed	
O6	2400 +/-250	2520	passed	
Digital output				
Offset (AT=1, SF=10000)				
x-component	0 +/-5 cm/s	< +/-5cm/s	passed	With windhood
y-component	0 +/-5 cm/s	< +/-5cm/s	passed	With windhood
z-component	0 +/-5 cm/s	< +/-5cm/s	passed	With windhood

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Serial number	0111117432			
Test parameter	Nominal value	Measured values	passed/failed	Remarks
Analogue output	Deviation:		n.a	
Range :	0,1% (full scale)		n.a	
Channel 1			n.a	
min. value / max. value:	V		n.a	
Channel 2			n.a	
min. value / max. value:	V		n.a	
Channel 3			n.a	
min. value / max. value:	V		n.a	
Channel 3			n.a	
min. value / max. value:	V		n.a	
			n.a	
Analogue Input	Deviation :		n.a	
Resolution: [bit]	12bit: 0,1%		n.a	
	16bit: 0,02% (full scale)		n.a	
Channel 1			n.a	
Range:	+/- V		n.a	
0 VDC / Test value:	V	V	n.a	
Channel 2			n.a	
Range:	+/- V		n.a	
0 VDC / Test value:	V	V	n.a	
Channel 3			n.a	
Range:	+/- V		n.a	
0 VDC / Test value:	V	V	n.a	
Channel 4			n.a	
Range:	+/- V		n.a	
0 VDC / Test value:	V	V	n.a	
Channel 5			n.a	
Range:	+/- V		n.a	
0 VDC / Test value:	V	V	n.a	
Channel 6			n.a	
Range:	+/- V		n.a	
0 VDC / Test value:	V	V	n.a	

Date of Systemcheck and calibration: 08.01.2019

Elmshorn, 03.12.2019.....

(Remus / Tech.)

METEK

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