

Plant operator: -----

Device information

Location	-----
Device tag	Promag300/500DP
Module name	C302-01
Nominal diameter	DN50 / 2"
Device name	Promag 300
Order code	5H3B50-E1R0/0
Serial number	WC2C3519000
Firmware version	01.00.02

**Calibration**

Calibration factor	0.7688
Zero point	5e-01

Verification information

Operating time (counter)	0d15h40m11s
Date/time (manually recorded)	01.01.10 12:00
Verification ID	1
Verification mode	Internal verification

Overall verification result*

 Failed	Details see next page
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*Result of the complete device functionality test via Heartbeat Technology

Confirmation

Heartbeat Verification verifies the function of the flowmeter within the specified measuring tolerance, over the useful lifetime of the device, with a total test coverage > 94 %, and complies with the requirements for traceable verification according to DIN EN ISO 9001:2008 – Section 7.6 a. (attested by TÜV-SÜD Industrieservices GmbH)

Notes

Date	Operator's signature	Inspector's signature
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Device identification and verification identification

Serial number	WC2C3519000
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Verification ID	1

**Sensor****✓ Passed**

Shot time symmetry	✓ Passed
Hold voltage symmetry	✓ Passed
Coil current loss	✓ Passed
Coil current stability	✓ Passed
Coil resistance	✓ Passed
E1 electrode cable	? Not done
E2 electrode cable	? Not done
EPD electrode cable	? Not done

Sensor electronic module (ISEM)**✓ Passed**

Supply voltage	✓ Passed
External reference voltage	✓ Passed
Linearity and reference voltage	✓ Passed
Offset of electrode measuring circuit	✓ Passed
Hold voltage feedback	✓ Passed
Shot voltage feedback	✓ Passed
Electronic current loss	✓ Passed
Coil circuit measurement	✓ Passed
Shot control circuit	✓ Passed
Electrode signal integrity	✓ Passed

System status**✓ Passed****I/O module****✗ Failed**

Input/output 1	26-27 (I/O 1)	✓ Passed
Input/output 2	24-25 (I/O 2)	✗ Failed
Input/output 3	22-23 (I/O 3)	✓ Passed
Input/output 4		☐ Not plugged

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Verification ID	1



Test item with value	Unit	Actual	Min.	Max.	Visualization
Sensor					
Shot time symmetry deviation		1.0000	0.9000	1.1000	□□□□■□□□□□
Hold voltage symmetry deviation		1.0000	0.9000	1.1000	□□□□■□□□□□
Coil current loss deviation	%	0.2116	-10.0000	10.0000	□□□□■□□□□□
Coil current offset	%	-0.0081	-0.1000	0.1000	□□□□■□□□□□
Coil current deviation	%	0.0000	-0.1000	0.1000	□□□□■□□□□□
Coil resistance value	Ohm	77.1	50.0	240.0	■□□□□□□□□□
E1 electrode impedance	Ohm	1000000			
E2 electrode impedance	Ohm	1000000			
EPD electrode impedance	Ohm	1000000			
E1/E2 electrode impedance on E1	Ohm	1000000			
E1/E2 electrode impedance on E2	Ohm	1000000			
Sensor electronic module (ISEM)					
External reference voltage 1	V	-nan			
Linearity and reference voltage 1		0.9971	0.9900	1.0100	□□□■□□□□□□
Linearity and reference voltage 2		0.9971	0.9900	1.0100	□□□■□□□□□□
Measuring point offset		2.9838	-100.0000	100.0000	□□□□■□□□□□
Hold voltage feedback value	%	1.45	-10.0	10.0	□□□□□■□□□□
Shot voltage feedback value	%	-0.71	-20.0	20.0	□□□□■□□□□□
Electronic current loss deviation	%	-0.12	-10.0000	10.0000	□□□□■□□□□□
Coil circuit value	%	0.00	-1.0	1.0	□□□□■□□□□□
Shot control circuit value	%	-0.08	-10.0	10.0	□□□□■□□□□□
Electrode signal integrity deviation	%	-0.09	-40.0	40.0	□□□□■□□□□□

System status

Test item with value	Unit	Actual	Min.	Max.	Visualization
I/O module					
I/O module 1 terminal numbers	26-27 (I/O 1)				
Output 1 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 1 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
I/O module 2 terminal numbers	24-25 (I/O 2)				
Output 2 value 1	mA	4.0000	-0.1400	0.1400	
Output 2 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
I/O module 3 terminal numbers	22-23 (I/O 3)				
Output 3 value 1		1.0000	0.9995	1.0005	□□□□■□□□□□
Output 3 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
I/O module 4 terminal numbers					
Output 4 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 4 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□

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Test item with value	Unit	Actual
Process conditions		
Volume flow value verification	l/min	0.0000
Conductivity value verification	µS/cm	-nan
Process temperature value verification	°C	-nan
Electronic temperature	°C	30.5765