

# ABB Ability™

## Verification for Measurement Devices



### Verification Report for: WaterMaster

**Measurement made easy**

Measurement & Analytics  
Service

#### Installation Details

Meter Owner	ABB
Machine Name	WM INTEGRAL
Medium	TEST

#### Operator Details

Date and Time	09-07-2019 15:44:21
Operator's Name	Admin
Operator's Signature	

#### Customer Details

Site Address	BTP-TEST
Telephone	9876543210
Email	test@in.abb.com

## EMF Tester Details

Serial No	3K822019150002
License Variant	Traceable Tx. input/output testing
Software Version	02.01.00
SRV500 Hardware Status	Initialized
SRV500 Hardware ID	4833314
Ambient Temperature	31.188 °C

Hardware Version	01.01.00
Calibration Due Date	5/31/2020
Calibration Date	5/31/2019
SRV500 Variant	EMF Tester
SRV500 Calibration Status	Calibrated

## Sensor Information

Sensor Serial No.	5044787
Sensor SAP/ERP No.	3K220000405198
Sensor Type	WM Full Bore
Sensor Size	DN 40
Q3	176.117 ugal/min
Calibration Accuracy	OIML Class 2
Sensor Calibration Factors	171.005 %, -1.171 mm/s
Date of Manufacture	11:11:27 2017/05/11
Run Hours	904hrs -11296mins
Sensor User Span/Zero	100.000 %; 0.000 mm/s
User Flow Cutoff/Hysteresis	0.000 %; 20.000 %
Coil Current	180.000 mA
Coil Inductance	0.000 mH
Coil / Loop Resistance	600.000 Ohm

## Transmitter Information

Transmitter Serial No	9025476
Transmitter SAP/ERP No.	3K220000405198
Application Version	V01.07.00 03/02/17
MSP Version	01.00.00
Date of Manufacture	16:32:48 2017/03/09
Run Hours	1808hrs 20736mins
Tx Gain Adjustment	-0.002 %
OIML Accuracy Alarms	OFF
Mains Freq	50.000 Hz
Qmax	176.117 ugal/min
Pulses/Unit	0.500
FS Freq	1.222 Hz
Pulses Limit Freq	5250.000 Hz
Meter Mode	Forward And Reverse

## Summary Verification of the Sensor

## Summary of Results

Coil Group	FAIL - Coil Open Circuit (F238.025)
Electrode Group	PASS
Sensor Group	PASS
Transmitter Signal	FAIL - Tx. measurement suspended (F220.017)
Transmitter Driver	PASS
Output Group	
Configuration	PASS

## Sensor Data

Coil Inductance Shift	-100.000 %
Cable Length	0 m
Electrode Backoff Voltage	0.225 V
Electrode Differential Voltage	-0.038 V

## Pipe Status

Empty Pipe

## Summary Verification of the Transmitter

Current Output 31/32		PASS
Applied	Measured	Result
4 mA Value	3.996 mA	PASS
12 mA Value	11.980 mA	PASS
20 mA Value	19.989 mA	PASS

Pulse Output 41/42		PASS
Applied	Measured	Result
Output 1:Max Hz	5259.698 Hz	PASS
Output 1:0.5 Max Hz	2627.258 Hz	PASS

Pulse Output 51/52		PASS
Applied	Measured	Result
Output 2:Max Hz	5263.158 Hz	PASS
Output 2:0.5 Max Hz	2626.395 Hz	PASS

Totalizer Information			
	Start	End	Difference
Forward	19955.000 igtal	19955.000 igtal	0.000 igtal
Reverse	19971.000 igtal	19971.000 igtal	0.000 igtal
Net	-45.000 igtal	-45.000 igtal	0.000 igtal

## Comments (Installation, Grounding etc.)

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IR-3.90- SILVER VDF & TEST

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Verification Certificate has been generated by ABB Ability™ Verification for measurement devices "Traceable Tx. input/output testing" variant (ABB WaterMaster VDF Version 02.02).

ABB Ability™ Verification for measurement devices Version 03.90.00

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