Project	MRW420
Module	Stromregler
Test Object	CurrentInterface_FeedBack

Instrumentation: Test object and called functions

Statement (C0) Coverage	100 %
Decision Coverage	100 %
Branch (C1) Coverage	100 %
MCC Coverage	100 %
MC/DC Coverage	100 %
Call Pair Coverage	100 %

Metrics

Cyclomatic Complexity (CC)	10
Test Case to Complexity Ratio (TC/C)	0.90
Result Significance (RS)	✔

Statistics

Total Testcases	9
Successful	9 ✔
Failed	0
Not Executed	0

Module Properties

Project Root Directory	C:\MOBA\TessyProject\MRW420_Tessy\MRW_Tessy_projekt
Configuration File	$(PROJECTROOT)\tessy\config\configuration.xml
Target Environment	GNU GCC Eclipse CDT (Default)
Kind of Test	Unit Test
Linker Options	
Source Root Directory	C:\MOBA\TessyProject\MRW420_Tessy\MRW420_source
Source File(s)	
File	$(SOURCEROOT)\CurrentInterface.c
Compiler Options	-DADuC836_ADC_PRIMARY_TOGGLE=2 -DCHANNEL_0 -DCURRENTINTERFACE_MIT_I_REGLER=1 -DFALSE=0 -DLIMIT_ALARMLIMIT_EXCEEDED=0x80 -DLIMIT_HANGINGLIMT_EXCEEDED=1 -DSYSTEMCND_ADC_BLOCKING_TIME_MS=200 -DSYSTEMTIME -DTRUE=1 -Dbit=char -DOFF=0 -DON=1

Interface		
Element	**Passing**	**Target Passing**
External Functions		
long ADuC836_ADCGetConversionValue(unsigned char,unsigned char)		
long ADuC836_ADCGetConversionValue()	IN	
unsigned char ADuC836_ADCGetConversionValue(byADC_Chanel)	IRRELEVANT	
unsigned char ADuC836_ADCGetConversionValue(byIgnoreNewConversionFlag)	IRRELEVANT	
unsigned char ADuC836_ADCIsNewConversionValue(unsigned char)		
unsigned char ADuC836_ADCIsNewConversionValue()	IN	
unsigned char ADuC836_ADCIsNewConversionValue(byADC_Chanel)	IRRELEVANT	
void ADuC836_DACClearCurrentDeviation()		
unsigned char ADuC836_DACConvert(long *,unsigned char)		
char ADuC836_DACGetCurrentDeviationCorrectionState()		
char ADuC836_DACGetCurrentDeviationCorrectionState()	IN	
float ADuC836_DACGetLastConvertedCurrent()		
float ADuC836_DACGetLastConvertedCurrent()	IN	
void ADuC836_DACSetCurrentDeviation(float)		
float ADuC836_DACSetCurrentDeviation(fDeviation2Set)	OUT	
void Diagnosis_SecurityCurrentInterface(unsigned char)		
unsigned char Limit_GetLimitState()		
unsigned char Limit_GetLimitState()	IN	
char Measurement_Processing(unsigned char,unsigned char,MEASUREMENT_VALUE *)		

Interface		
Element	**Passing**	**Target Passing**
double fabs(double)		
Local Functions		
unsigned char CurrentInterface_EvaluateDeviation(unsigned char,float,unsigned char *)		
unsigned char CurrentInterface_EvaluateDeviation()	IN	
unsigned char CurrentInterface_EvaluateDeviation(bCurrentOn)	IRRELEVANT	
float CurrentInterface_EvaluateDeviation(fDeviation)	IRRELEVANT	
unsigned char * CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	IN	OUT
External Variables		
GLOBAL Global	IN	
MODE Mode	IRRELEVANT	
char bySetStateManualy	IRRELEVANT	
unsigned int uTestMode	IRRELEVANT	
long lRMW_PowerSupply	IRRELEVANT	
char byTemperature	IRRELEVANT	
char byLastTemperature	IRRELEVANT	
char byTemperatureOffset	IRRELEVANT	
char bySimulatedTemperature	IRRELEVANT	
unsigned char byErrorPowerSupplyCounter	IRRELEVANT	
unsigned char byErrorPowerSupplyStateCounter	IRRELEVANT	
unsigned long ulSystemstatus	IN	
unsigned long ulSystemstatus_Partner	IN	
unsigned char chLimitStatus_Partner	IRRELEVANT	
unsigned char chTeachInStatus	IRRELEVANT	
unsigned long ulSystemID	IRRELEVANT	
unsigned long ulOperatingHours	IRRELEVANT	
unsigned long ulOperatingHours_2	IRRELEVANT	
unsigned long ulAdminCode	IRRELEVANT	
unsigned char chEModulCompensationOn	IRRELEVANT	
Global Variables		
unsigned char byDisableFeedbackCounter	INOUT	
CURRENT_INTERFACE g_CurrentInterface	INOUT	
FEEDBACK FeedBack	INOUT	
RESULTS Results	OUT	
MEASUREMENT_VALUE FilteredMeasurementFromADC	OUT	
long nLong	OUT	
float fFloat	OUT	
MEASUREMENT_VALUE Deviation	OUT	
long nLong	OUT	
float fFloat	OUT	
MEASUREMENT_VALUE CalibratedMeasurement	OUT	
long nLong	OUT	
float fFloat	OUT	
unsigned char byNewMeasurement	OUT	
float fSimulatedDerivation	IRRELEVANT	
float fMaxDeviation	IN	
unsigned char byMaxDeviationCounter	IN	
char chIntegralPortion	IN	
char chProportionalPortion	IRRELEVANT	
DAC_T DAC	IRRELEVANT	
long lRatedDACOutput	IRRELEVANT	
long lCalPointFeedBack_RMW[2]	IRRELEVANT	
float fCalPointFeedBack_Actual[2]	IRRELEVANT	
unsigned char byAdjustCurrentInterface	IRRELEVANT	
long lRMWForCalibration[2]	IRRELEVANT	
unsigned char byConversionState	IRRELEVANT	
unsigned char byLastConversionState	IRRELEVANT	
char CurrentInterface_EvaluateDeviation::chDeviationSign#1	IRRELEVANT	

Usercode

Stub Functions

ADuC836_DACClearCurrentDeviation
```
$stub void ADuC836_DACClearCurrentDeviation() {

  ;
}
```

ADuC836_DACConvert
```
$stub unsigned char ADuC836_DACConvert(long *,unsigned char) {

  ;
}
```

Diagnosis_SecurityCurrentInterface
```
$stub void Diagnosis_SecurityCurrentInterface(unsigned char) {

  ;
}
```

Measurement_Processing
```
$stub char Measurement_Processing(unsigned char,unsigned char,MEASUREMENT_VALUE *) {

  if (TS_CALL_COUNT == 1)
  {
   TESSY_EVAL_U8("chWhat2Process == MEASUREMENT_PROCESSING_ZERO",chWhat2Process , ==, MEASUREMENT_PROCESSING_ZERO);
  }

  if (TS_CALL_COUNT == 2)
  {
   TESSY_EVAL_U8("chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION",chWhat2Process , ==,
MEASUREMENT_PROCESSING_STANDARDIZATION);
   //converts long to float
   Messwert->fFloat = Messwert->nLong;
  }

  if (TS_CALL_COUNT == 3)
  {
   TESSY_EVAL_U8("chWhat2Process == MEASUREMENT_PROCESSING_MOTION",chWhat2Process , ==, MEASUREMENT_PROCESSING_MOTION);
  }
}
```
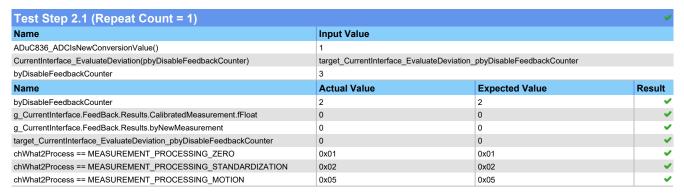
Test Case 1: kein neuer Messwert vorh ✔

Specification   `1.2.2.0`

Test Step 1.1 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	0
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter

Name	Actual Value	Expected Value	Result
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔

Test Case 2: Neuer Messwert ✔

Specification   `1.2.2.1 & 1.2.2.2`

Test Step 2.1 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
byDisableFeedbackCounter	3

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	2	2	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔

Test Case 3: Systemfehler Check ✔

Specification   1.2.2.3

Test Step 3.1 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	LIMIT_ALARMLIMIT_EXCEEDED (0x80)
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔

Test Step 3.2 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0xFF
Limit_GetLimitState()	LIMIT_ALARMLIMIT_EXCEEDED (0x80)
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔

Test Step 3.3 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1

Name	Input Value		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0xFF		
Global.ulSystemstatus_Partner	0xFF		
Limit_GetLimitState()	LIMIT_ALARMLIMIT_EXCEEDED (0x80)		
byDisableFeedbackCounter	0		
Name	**Actual Value**	**Expected Value**	**Result**
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace				✔
Actual Function	**Count**	**Expected Function**	**Count**	**Result**
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔

Test Step 3.4 (Repeat Count = 1)				✔
Name	**Input Value**			
ADuC836_ADCIsNewConversionValue()	1			
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter			
Global.ulSystemstatus	0xFF			
Global.ulSystemstatus_Partner	0x00			
Limit_GetLimitState()	0x00			
byDisableFeedbackCounter	0			
Name	**Actual Value**	**Expected Value**	**Result**	
byDisableFeedbackCounter	0	0	✔	
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔	
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔	
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔	
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔	
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔	
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔	

Test Step Call Trace				✔
Actual Function	**Count**	**Expected Function**	**Count**	**Result**
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔

Test Step 3.5 (Repeat Count = 1)				✔
Name	**Input Value**			
ADuC836_ADCIsNewConversionValue()	1			
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter			
Global.ulSystemstatus	0xFF			
Global.ulSystemstatus_Partner	0xFF			
Limit_GetLimitState()	0x00			
byDisableFeedbackCounter	0			
Name	**Actual Value**	**Expected Value**	**Result**	
byDisableFeedbackCounter	0	0	✔	
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔	
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔	
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔	
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔	
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔	
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔	

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔

Test Step 3.6 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0xFF
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔

Test Case 4: StromregelungInaktiv ✔

Specification   `1.2.2.4 & 1.2.2.5`

Test Step 4.1 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	0
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔

Test Case 5: StromregelungMehrfacheAbweichung ✔

Specification 1.2.2.4, 1.2.2.5, 1.2.2.6, 1.2.2.7

Test Step 5.1 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
CurrentInterface_EvaluateDeviation()	2
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	1	1	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔

Test Step 5.2 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
CurrentInterface_EvaluateDeviation()	3
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	1	1	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔

Test Step 5.3 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
CurrentInterface_EvaluateDeviation()	4
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	1	1	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔

Test Step 5.4 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
CurrentInterface_EvaluateDeviation()	5
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	1	1	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔

Test Case 6: StromregelungKeineBuerde ✔

Specification   1.2.2.4, 1.2.2.5, 1.2.2.6, 1.2.2.7

Test Step 6.1 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
CurrentInterface_EvaluateDeviation()	0
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔
ADuC836_DACClearCurrentDeviation	1	ADuC836_DACClearCurrentDeviation	1	✔

Test Case 7: StromregelungBuerdeAngeschlossen I>5mA ✔

Specification   1.2.2.4, 1.2.2.5, 1.2.2.6, 1.2.2.7,1.2.2.8

Test Step 7.1 (Repeat Count = 1) ✔

Name	Input Value
ADuC836_ADCGetConversionValue()	100
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
ADuC836_DACGetLastConvertedCurrent()	50
CurrentInterface_EvaluateDeviation()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	100	100	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔
ADuC836_DACClearCurrentDeviation	1	ADuC836_DACClearCurrentDeviation	1	✔

Test Step 7.2 (Repeat Count = 1) ✔

Name	Input Value		
ADuC836_ADCGetConversionValue()	50		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	56		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		
Name	**Actual Value**	**Expected Value**	**Result**
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	50	50	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔
ADuC836_DACClearCurrentDeviation	1	ADuC836_DACClearCurrentDeviation	1	✔

Test Case 8: StromregelungBuerdeAngeschlossen I=5mA ✔

Specification   `1.2.2.4, 1.2.2.5, 1.2.2.6, 1.2.2.7,1.2.2.8`

Test Step 8.1 (Repeat Count = 1) ✔

Name	Input Value		
ADuC836_ADCGetConversionValue()	55		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	50		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		
Name	**Actual Value**	**Expected Value**	**Result**
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	55	55	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔

Name	Actual Value	Expected Value	Result
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✓
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✓

Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✓
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✓
Measurement_Processing	3	Measurement_Processing	3	✓
Limit_GetLimitState	1	Limit_GetLimitState	1	✓
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✓
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✓
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✓
ADuC836_DACClearCurrentDeviation	1	ADuC836_DACClearCurrentDeviation	1	✓

Test Step 8.2 (Repeat Count = 1) ✓

Name	Input Value
ADuC836_ADCGetConversionValue()	50
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
ADuC836_DACGetLastConvertedCurrent()	55
CurrentInterface_EvaluateDeviation()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
byDisableFeedbackCounter	0	0	✓
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	50	50	✓
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✓
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✓
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✓
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✓
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✓

Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✓
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✓
Measurement_Processing	3	Measurement_Processing	3	✓
Limit_GetLimitState	1	Limit_GetLimitState	1	✓
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✓
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✓
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✓
ADuC836_DACClearCurrentDeviation	1	ADuC836_DACClearCurrentDeviation	1	✓

Test Case 9: StromregelungBuerdeAngeschlossen I<5mA ✓

Specification   `1.2.2.4, 1.2.2.5, 1.2.2.6, 1.2.2.7, 1.2.2.8`

Test Step 9.1 (Repeat Count = 1) ✓

Name	Input Value
ADuC836_ADCGetConversionValue()	54
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
ADuC836_DACGetLastConvertedCurrent()	50
CurrentInterface_EvaluateDeviation()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	-2	-2	✓
byDisableFeedbackCounter	0	0	✓

Name	Actual Value	Expected Value	Result
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	54	54	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace				✔
Actual Function	**Count**	**Expected Function**	**Count**	**Result**
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✔
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✔

Test Step 9.2 (Repeat Count = 1)				✔
Name	**Input Value**			
ADuC836_ADCGetConversionValue()	50			
ADuC836_ADCIsNewConversionValue()	1			
ADuC836_DACGetCurrentDeviationCorrectionState()	1			
ADuC836_DACGetLastConvertedCurrent()	54			
CurrentInterface_EvaluateDeviation()	1			
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter			
Global.ulSystemstatus	0x00			
Global.ulSystemstatus_Partner	0x00			
Limit_GetLimitState()	0x00			
byDisableFeedbackCounter	0			

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	2	2	✔
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	50	50	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace				✔
Actual Function	**Count**	**Expected Function**	**Count**	**Result**
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✔
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✔

Test Step 9.3 (Repeat Count = 1) ✓

Name	Input Value
ADuC836_ADCGetConversionValue()	1
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
ADuC836_DACGetLastConvertedCurrent()	0
CurrentInterface_EvaluateDeviation()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	-0.5	-0.5	✓
byDisableFeedbackCounter	0	0	✓
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	1	1	✓
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✓
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✓
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✓
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✓
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✓

Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✓
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✓
Measurement_Processing	3	Measurement_Processing	3	✓
Limit_GetLimitState	1	Limit_GetLimitState	1	✓
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✓
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✓
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✓
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✓
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✓

Test Step 9.4 (Repeat Count = 1) ✓

Name	Input Value
ADuC836_ADCGetConversionValue()	2
ADuC836_ADCIsNewConversionValue()	1
ADuC836_DACGetCurrentDeviationCorrectionState()	1
ADuC836_DACGetLastConvertedCurrent()	0
CurrentInterface_EvaluateDeviation()	1
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter
Global.ulSystemstatus	0x00
Global.ulSystemstatus_Partner	0x00
Limit_GetLimitState()	0x00
byDisableFeedbackCounter	0

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	-1	-1	✓
byDisableFeedbackCounter	0	0	✓
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	2	2	✓
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✓
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✓
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✓
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✓
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✓

Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✓
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✓
Measurement_Processing	3	Measurement_Processing	3	✓
Limit_GetLimitState	1	Limit_GetLimitState	1	✓
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✓
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✓
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✓
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✓
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✓

Test Step 9.5 (Repeat Count = 1) ✓

Name	Input Value		
ADuC836_ADCGetConversionValue()	3		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	0		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	-1.5	-1.5	✓
byDisableFeedbackCounter	0	0	✓
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	3	3	✓
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✓
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✓
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✓
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✓
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✓

Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✓
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✓
Measurement_Processing	3	Measurement_Processing	3	✓
Limit_GetLimitState	1	Limit_GetLimitState	1	✓
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✓
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✓
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✓
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✓
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✓

Test Step 9.6 (Repeat Count = 1) ✓

Name	Input Value		
ADuC836_ADCGetConversionValue()	4		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	0		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	-2	-2	✓
byDisableFeedbackCounter	0	0	✓
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	4	4	✓
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✓
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✓
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✓
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✓
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✓

Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✓
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✓
Measurement_Processing	3	Measurement_Processing	3	✓
Limit_GetLimitState	1	Limit_GetLimitState	1	✓
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✓
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✓
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✓
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✓
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✓

Test Step 9.7 (Repeat Count = 1) ✔

Name	Input Value		
ADuC836_ADCGetConversionValue()	0		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	0		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	0	0	✔
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✔
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✔

Test Step 9.8 (Repeat Count = 1) ✔

Name	Input Value		
ADuC836_ADCGetConversionValue()	0		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	1		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	0.5	0.5	✔
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✓
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✓
Measurement_Processing	3	Measurement_Processing	3	✓
Limit_GetLimitState	1	Limit_GetLimitState	1	✓
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✓
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✓
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✓
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✓
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✓

Test Step 9.9 (Repeat Count = 1) ✓

Name	Input Value		
ADuC836_ADCGetConversionValue()	0		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	2		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	1	1	✓
byDisableFeedbackCounter	0	0	✓
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✓
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✓
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✓
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✓
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✓
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✓

Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✓
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✓
Measurement_Processing	3	Measurement_Processing	3	✓
Limit_GetLimitState	1	Limit_GetLimitState	1	✓
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✓
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✓
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✓
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✓
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✓

Test Step 9.10 (Repeat Count = 1) ✓

Name	Input Value		
ADuC836_ADCGetConversionValue()	0		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	3		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	1.5	1.5	✓
byDisableFeedbackCounter	0	0	✓
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✓
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✓
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✓
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✓
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✓

Name	Actual Value	Expected Value	Result
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✔
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✔

Test Step 9.11 (Repeat Count = 1) ✔

Name	Input Value		
ADuC836_ADCGetConversionValue()	0		
ADuC836_ADCIsNewConversionValue()	1		
ADuC836_DACGetCurrentDeviationCorrectionState()	1		
ADuC836_DACGetLastConvertedCurrent()	4		
CurrentInterface_EvaluateDeviation()	1		
CurrentInterface_EvaluateDeviation(pbyDisableFeedbackCounter)	target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter		
Global.ulSystemstatus	0x00		
Global.ulSystemstatus_Partner	0x00		
Limit_GetLimitState()	0x00		
byDisableFeedbackCounter	0		

Name	Actual Value	Expected Value	Result
ADuC836_DACSetCurrentDeviation(fDeviation2Set)	2	2	✔
byDisableFeedbackCounter	0	0	✔
g_CurrentInterface.FeedBack.Results.CalibratedMeasurement.fFloat	0	0	✔
g_CurrentInterface.FeedBack.Results.byNewMeasurement	0	0	✔
target_CurrentInterface_EvaluateDeviation_pbyDisableFeedbackCounter	0	0	✔
chWhat2Process == MEASUREMENT_PROCESSING_ZERO	0x01	0x01	✔
chWhat2Process == MEASUREMENT_PROCESSING_STANDARDIZATION	0x02	0x02	✔
chWhat2Process == MEASUREMENT_PROCESSING_MOTION	0x05	0x05	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
ADuC836_ADCIsNewConversionValue	1	ADuC836_ADCIsNewConversionValue	1	✔
ADuC836_ADCGetConversionValue	1	ADuC836_ADCGetConversionValue	1	✔
Measurement_Processing	3	Measurement_Processing	3	✔
Limit_GetLimitState	1	Limit_GetLimitState	1	✔
ADuC836_DACGetLastConvertedCurrent	1	ADuC836_DACGetLastConvertedCurrent	1	✔
ADuC836_DACGetCurrentDeviationCorrectionState	1	ADuC836_DACGetCurrentDeviationCorrectionState	1	✔
CurrentInterface_EvaluateDeviation	1	CurrentInterface_EvaluateDeviation	1	✔
ADuC836_DACSetCurrentDeviation	1	ADuC836_DACSetCurrentDeviation	1	✔
ADuC836_DACConvert	1	ADuC836_DACConvert	1	✔