

'CALMATE' FIELD CALIBRATION KIT



- Σ **Windows® PC compatible**
- Σ **Simple step by step operation**
- Σ **No Power Supply required**
- Σ **Integral HI Resolution Milliamp meter**
- Σ **No test equipment required**

Sigma Controls 'CALMATE' is a system to permit user calibration of all Sigma Controls level and pressure transmitters in the field.

Consisting of a protocol converter ("dongle") with USB cable, transducer connections and a program and instruction diskette, this kit allows for complete check and recalibration of any installed Sigma level transducer, manufactured since January 2011.

The unit powers the transmitter from the USB port on the P.C. and the protocol converter contains a highly accurate milliamp meter, which is displayed on the calibration screen.

Multiple parameter adjustments can be made to the transducer under calibration including Zero, Span, Range, Modbus I.D., Sample rate, offset, etc...

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'CALMATE' FIELD CALIBRATION KIT

Sigma CalMate End User Program V4.1 10/31/2016 K-WW

Step 1: Find CalMate **Note:**
 Step 2: Find Unit on ModBus
 Step 3: Read Unit Data
 Step 4:
 [Normal Range 4.0mA - 20mA]
 [Max Range 3.5mA - 20.5mA]

CURRENT SETTINGS

Firmware Revision:
 Unit Serial Number
 Sensor Temperature
 Engineering Units

***** Customer Setup Options *****

Setting	Current Setting	Change Setting to	Click to Change	
4mA Point	<input type="text" value=".00"/>	<input type="text"/>	<input type="button" value="Change 4mA Point"/>	Sets 4mA point [Number can have 2 decimals]
20mA Point	<input type="text" value="100.00"/>	<input type="text"/>	<input type="button" value="Change 20mA Point"/>	Sets 20mA point [Number can have 2 decimals]
Current Reading	<input type="text" value="88.38"/>	<input type="text" value="[Desired Reading]"/>	<input type="button" value="Correct Reading"/>	Change this ONLY if you know the current reading has drifted.
Offset Correction	<input type="text" value=".00"/>	<input type="button" value="Remove Correction"/>	<input type="button" value="Use this to restore the uncorrected reading"/>	

***** Caution: For Advanced Users Only *****

Setting	Current Setting	Change Setting to	Click to Change	
Sample Rate	<input type="text" value="Max Rate"/>	<input type="text"/>	<input type="button" value="Change Sample Rate"/>	0=maximum, else ~ 1 to 127 sec delay
# Readings to Average [1 - 32]	<input type="text" value="1"/>	<input type="text"/>	<input type="button" value="Change # Readings"/>	Range is 1 - 32 readings to do a rolling average on
ModBus Node #	<input type="text" value="17"/>	<input type="text"/>	<input type="button" value="Change Node #"/>	Valid Modbus node numbers are from 1 - 246 Use "Find Unit" to verify changed ModBus node #
Raw Sensor Counts	<input type="text" value="37937"/>	For diagnostic use by Sigma Controls in case of unusual sensor operation		
Unit in Forced?	<input type="text" value="No"/>			

**SOFTWARE VERSION
V4.1**

