

‘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

Step 2: Find Unit on ModBus

Step 3: Read Unit Data

CURRENT SETTINGS

Firmware Revision:

Unit Serial Number

Sensor Temperature

Engineering Units

Find Cal'Mate

Find Unit

[Re]Read Unit

Note:

To read current from non-Sigma sensors:
Use steps 1 and 4 only!

EXIT

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

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

Step 4:

Read Loop Current

18.17 mA

[Normal Range 4.0mA - 20mA]
[Max Range 3.5mA - 20.5mA]

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

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

**SOFTWARE VERSION
V4.1**

Sigma Controls, Inc.

PROCESS CONTROLS AND INSTRUMENTATION

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