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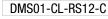
Features

- Measures 4-20mA or 0-20mA current loop process signals
- 32 user-selectable span (display) ranges
- Bright 1" red LED display, readable at distance of 80 feet (~24 m)
- Adjustable display brightness
- Wide common-mode input range (±48V)
- Digital filter for optimizing measurements in electrically noisy environments
- Operates from an external 12VDC power supply
- Mounts with adhesive strips (supplied) or screws
- 0.1% typical accuracy

PRODUCT OVERVIEW

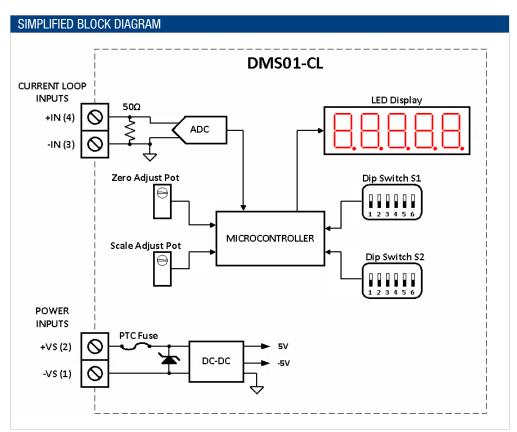
DMS01-CL-RS12-C is a robust digital panel meter that provides precise measurement and display of current loop process signals on a highly visible red 1" (25mm) tall, 4 1/2 digit seven-segment LED display with adjustable brightness. It provides selectable 4-20 mA or 0-20 mA current range, up to 32 display ranges and choice of user calibration or factory calibration modes. An external 12VDC power source provides power to the meter. An internal DC-DC converter accommodates a +/-48V common-mode measurement range with respect to the power supply input, simplifying a wide range of measurement applications and an internal digital filter enhances performance in electrically noisy environments making this digital panel meter is ideal for laboratory instrumentation, factory automation, and any application requiring precision measurement.

ORDERING INFORMATION:



Digital Current Loop Process Meter, 1" Red Display, 12VDC Power

Large Format Digital Current-Loop Process Meter





For full details go to www.murata-ps.com/rohs

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DMS01-CL Series

Murata Power Solutions

Large Format Digital Current-Loop Process Meter

Parameter	Min	Тур	Max	Units		
Supply Voltage (Operating)	11	12	13	V		
Absolute Maximum Supply Voltage	-1		+14	V		
Supply Current ¹ (Operating at maximum intensity)			100	mA		
(Operating at minimum intensity)			60	mA		
Digits (Displayed)	3.5 – 4.5	, depending on disp	olay range			
Digit Height		1 (25.4)		inch (mm)		
Display Update Rate		3.5		Sa/s		
Decimal Selection	Manual, (fixed	at 00.00 when disp	playing physical			
		input current)				
Display Color		Red (627nm pk)				
Over-range indication		Flashing Display				
Measurement range (0-20mA range)	0		20	mA		
Display Span Range (unipolar mode)	200	0 to 20,000, 32 co	des			
(bipolar mode)		-9500 to +9500				
Accuracy		0.1%	1%			
Zero-Offset (0-20mA range)	-2		+2	count		
Input Impedance		50		Ω		
Offset Trim Range	±5% of span	range, see span ra table	inge selection			
Gain Trim Range	variable, s	variable, see span range selection table				
Temperature Drift (0 to +50°C)		0.8		count/°C		
Absolute Maximum Input Current (-IIN to +IIN)	-40		+40	mA		
Common-Mode Input Range (-VIN) to (-VS)	-48		+48	V		

PHYSICAL/ENVIRONMENTAL				
Parameter	Min	Тур	Max	Units
Operating Temperature	0		+50	°C
Storage Temperature	-40		+75	°C
Humidity (Non-condensing)			85	%RH
Weight		6.14 (174)		oz (g)

Brightness	single-turn potentiometer
Offset and Gain Adjustment	QTY 2 12-turn trim potentiometers
Dipswitch configuration setting for: - Input current range - Digital filter enable - Span (display) range - Unipolar / Bipolar mode - Trim enable	QTY 2 6-position Dipswitches (S1 & S2)
Overall Dimensions	5.86 (149) L x 3.36 (86) W x 1.43 (37) H inch (mm)

Terminal Blocks	Min	Тур	Max	Units
Wire Size	24		14	AWG
Insulation Strip Length		0.25 (6)		inch (mm)
Screw Tightening torque		56.6 (0.4)		oz-in (N-m)

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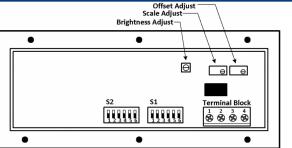
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Large Format Digital Current-Loop Process Meter

MEASUREMENT TYPE AND CAPABILITIES:

- Measures 4-20 or 0-20 mADC current loop process signals with 32 user-selectable span ranges (via S1, S2), displaying 3-1/2 to 4 1/2 digits of resolution.
- > Two user-selectable modes of operation: unipolar (supporting only positive readings) or bipolar (supports negative output readings).
- The meter's measurement terminals are electrically isolated from the power terminals through a DC-DC converter, providing a high common-mode input range (+/-48V) for the input (relative to the power terminals), simplifying a wide range of measurement applications.
- > Meter requires an external 12VDC power supply (not included).

REAR PANEL LAYOUT: SCREW TERMINAL CONNECTIONS & CONTROLS



Terminal Block									
Terminal #	Name	Function							
1	-VS	Bower Supply Terminale (+ 12)/DC)							
2	+VS	Power Supply Terminals (+12VDC)							
3	-IN	Measurement Input Terminals							
4	+IN	Measurement input reminals							

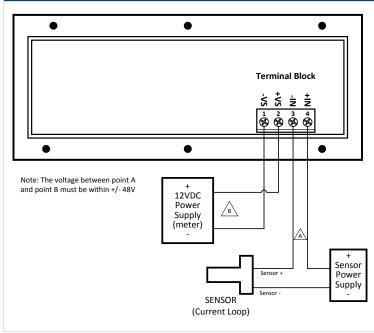
Brightness Adjust – This single-turn potentiometer supports adjustment of the meter's LED display brightness for maximum readability. Turning the pot clockwise increases brightness, while turning it counterclockwise decreases brightness.

Offset Adjust – This 12-turn potentiometer supports the offset adjustments of the span ranges. See the span range selection table for the maximum allowed offset for each span range. Turning the pot clockwise will give a negative offset, while turning it counterclockwise gives a positive offset.

Gain Scale Adjust – This 12-turn potentiometer supports gain adjustments of the span ranges. This allows the user to select values between each of the span ranges, between 1780 to 20300 (unipolar mode) and -9785 to 9785 (bipolar mode). See the span range selection table for the maximum allowed gain for each span range. Turning the pot clockwise decreases (-) the gain, while turning it counterclockwise increases (+) the gain (see Span Ranges below).

S1 & S2 – 6-position dipswitches provided for configuration the meter's various options. See Meter Configuration below for details.

CONNECTION EXAMPLES:



This example illustrates an application where the Current sensor is connected to terminals 3 and 4, where terminal 3 is the negative input terminal (-IN) and terminal 4 is the positive input terminal (+IN).

The 12V power supply (not included) connects to terminals 1 and 2, where terminal 1 is the negative power supply terminal (-VS) and terminal 2 is the positive power supply terminal (+VS) and the sensor is powered from a separate external power supply. Note: it is possible to power both the sensor and the meter from the same power supply provided the sensor can operate from +12VDC.



Large Format Digital Current-Loop Process Meter

METER CONFIGURATION

This Meter is configured through two 6 position dipswitches S1 and S2 on the back of the meter. Each switch position is identified by SW#. For example, SW1 is switch 1 on S1, and controls the input range, while SW1 on S2 selects of one the span ranges. The following illustrate the possible configurations:

O-20mA ON Image: Signal Filter on /Off Signal Filter SW2 Digswitch S1 Description Digital Filter SW2 Dipswitch S1 Description SW2 on S1 controls the meter's digital filter. In the OFF position, filter is disabled and readings are updated at maximum speed. It moving average filter, which results in more stable readings, but slower response. ON ON Image: SW2 Dipswitch S2 Description Mode SW2 Dipswitch S2 Description Unipolar/Bipolar Mode Selection Description Bipolar mode allows the user to display negative values. For exat the meter is set to -20 mA input, span of 6000 and set in unipo mode, then O mA input results in a count of 0 on the display. While 20 mA results in a count of 4 6000 on display. SW2 on S2 controls whether the meter is in unipolar or 1 mode. Unipolar mode and display values between 0 to +20000 display. SW2 on S2 controls whether the meter is in unipolar or 1 mode. Unipolar mode and display values between 0 to +20000 display. SW2 on S2 controls whether the meter is in unipolar or 1 mode. Unipolar mode and display values between 0 to +20000 display. SW2 on S2 controls whether the meter is in unipolar or 1 mode. Unipolar mode and display values between 0 to +20000 display. SW2 on S2 controls whether the meter is in unipolar or 1 mode. Unipolar mode and display values between 0 to +20000 display. SW2 on S2 controls whether the meter is in unipolar or 1 mode. Unipolar mode and display values between 0 to +20000 display. SW2 on S2 controls whether the meter is in unipolar or 1 mode. Unipolar mode and display values between 0 to +20000 display. SW2 on S2 controls whether	pocoloio com	9414401101										
4-20mA OFF Image: Construction of the meter's input range. In the OFF position is not made in the ONF position the meter's range on the ONF position the meter's range on the ONF position the meter's range on the OFF SW1 on S1 controls the meter's input range. In the OFF position is not made on the ONF position the meter's range on the OFF Digital Filter On/Off Slection Description SW2 on S1 controls the meter's digital filter. In the OFF position, filter is disabled and readings are pocaled at maximum speed. In moving average filter, which results in more stable readings. Por position, the filter is enabled, and readings are pocaled at maximum speed. In moving average filter, which results in a count of 0 on the display, while submer the same settings. During the submer of the one of the open one setting. Bolar mode can display negative values. For example, the one the same settings. During the submer of the open one setting. During the submer of the open one setting. Support mode can display, while 20 mA results in a count of 0 on the display, while 20 mA results in a count of 0 on the display. If the meter is in unipolar mode with the same setting. Support mode can display whether the meter is in unipolar one display mether the meter is in unipolar one display. Withe same setting. Support mode can display whether the meter is in unipolar one support the same range setting. Support mode can display values between 0 to + 20000 depending on the span range setting. Display filter were support to the same range setting. Display filter were one of the open of the display whether the meter is in unipolar of the same range setting. Support mode can display values between 0 to + 20000 depending on the span range setting. Display filter were one of the open of the display mether the meter is in unipolar on the span range setting. Display filter were one of the open of the open of												
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0-20mA 0N 20 mA. Digital Filter On/Off Slection Digital Filter SW2 Dipswitch S1 Description 0FF 0FF 0FF SW2 on S1 controls the meter's digital filter. In the 0FF position, filter is disabled and readings are updated at maximum speed. It ON position, the filter is enabled, and readings are updated at maximum speed. It ON position, the filter is enabled, and readings are updated at maximum speed. It ON position, the filter is enabled, and readings are updated at maximum speed. It ON position, the filter is enabled, and readings are updated at maximum speed. It on position are esponse. Unipolar/Bipolar Mode Selection Description Mode SW2 Dipswitch S2 Unipolar/Bipolar Mode Selection Description Bipolar OFF OFF Unipolar/Bipolar Mode Selection Bipolar mode allows the user to display negative values. For example, and results in a count of 6000 on the display. If the meter is set to 0-20 mk input results in a count of 0 on the display. If the meter is bipolar mode can display while 20 mA results in a count of 0 + 6000 on display. SW2 on S2 controls whether the meter is in unipolar of mode. Unipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display is bipolar range is not offered beyond ±9500 because of display between -9500 to +9500 depending on the span range setting. Bipolar mode can display is bipolar range is not offered beyond ±9500 because of display bipolar range is not offered beyond ±9500 because of display bipolar range is not offered beyond ±9500 because of display is bipolar range is not offered beyond ±9500 bec	4-20mA		OFF	ON U D D D D D D D D D D		SW1 on S1 controls the meter's input range. In the OFF position the						
Digital Filter SW2 Dipswitch S1 Description OFF OFF Image: Simple	0-20mA		ON	ON 1 2 3								
OFF OFF Image: Control and the set of	Digital Filter O	n/Off Slection										
OFF OFF Image: Selection SW2 on S1 controls the meter's digital filter. In the OF- position, filter is disabled and readings are updated at maximum speed. In ON position, the filter is disabled and readings are updated at maximum speed. In ON position, the filter is enabled, and readings are processed throwing average filter, which results in more stable readings, but slower response. Unipolar/Bipolar Mode Selection Description Mode SW2 Dipswitch S2 Description Unipolar/Bipolar Mode Selection Description Bipolar mode allows the user to display negative values. For exa the meter is set to 0-20 mA input span of 6000 on the display, while you on the display. If the meter is a count of 0000 on the display. If the meter is a count of 6000 on the display. If the meter is a count of 6000 on the display. If the meter is a count of 6000 on the display. While you are updated at maximum speed. If the meter is set to 0-20 mA input span of 6000 and set in unipo mode, then 0 mA input results in a count of 46000 on display. Wile you was between 0 to +20000 dispending on the span range setting. Bipolar mode can display was between 0 to +20000 dispending on the span range setting. Bipolar mode can display was between 0 to +20000 dispending on the span range setting. Bipolar mode can display was between 0 to +20000 dispending on the span range setting. Bipolar mode can display was between 0 to +20000 dispending on the span range setting. Bipolar mode can display was between 0 to +20000 dispending on the span range setting. Bipolar mode can display was between 0 to +20000 dispending on the span range setting. Bipolar mode can display was between 0 to +20000 dispending on the span range setting. Bipolar mode can display wasetwas setting. Bipolar mode can display was b	Digital Fili	ter	SW2		itch S1	Descriptio	n					
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Mode SW2 Dipswitch S2 Description Unipolar OFF Image: Sign Range Selector Bipolar mode allows the user to display negative values. For exa the meter is set to 0-20 mA input, span of 6000 and set in unipolar mode, then 0 mA input results in a count of 0 on the display, wh mA input results in a count of 000 on the display, while 20 mA results in a count of 0000 on the display, while 20 mA results in a count of +6000 on display. SW2 on S2 controls whether the meter is in unipolar or I mode. Unipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display whether the meter is in unipolar or I mode. Unipolar mode can display while 20 mA results in a count of +6000 on display. SW2 on S2 controls whether the meter is in unipolar or I mode. Unipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display whether the meter is in unipolar mode can display whether the meter is in unipolar mode can display. SW2 on S2 controls whether the meter is in unipolar mode can display whether 0 to +20000 depending on the span range setting. Bipolar mode can display whether 0 the span range setting. Bipolar mode can display whether 0 the span range setting. Bipolar mode can display setting. Bipolar mode can display setting. Bipolar mode can display thether 0 the span range setting. Bipolar mode can display setting. Bipolar mode can display setting. Bipolar mode can display thether 0 the span range setting. Bipolar mode can display thether 0 the span range setting. Bipolar mode can display thether 0 the span range setting. Bipolar mode can display thether 0 the span range setting. Bipolar mode can display thether 0 the span range setting. Bipolar mode can display thether 0 the span range setting. Bipolar mode can display thether 0 the span range setting. Bipolar mode can display thet	ON		ON	ON 1 2 3		moving ave	erage filter, v					
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Unipolar OFF Image: Construction of the const	Mode		SW2	Dipswi	itch S2							
BipolarONImage: SW2 on S2 controls whether the meter is in unipolar or I mode. Unipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display values between 0 to +20000 depending on the span range setting. Bipolar mode can display values between -9500 to +9500 depending on the span range setting. Span RangeSpan RangeGain AdjustmentOffset AdjustmentS2S1Dipswitch S2Dipswitch S2Input Current (mA)N/AN/AOFFOFFOFFOFFOFFImput 0 Imput 0 Impu	Unipolar OFF				the meter is set to 0-20 mA input, span of 6000 and set in unipolar mode, then 0 mA input results in a count of 0 on the display, while 20 mA input results in a count of 6000 on the display. If the meter is set to bipolar mode with the same settings, 0 mA input results in a count of -							
Span RangeGain AdjustmentOffset AdjustmentS2S1Dipswitch S2Dipswitch S2Input Current (mA)N/AN/AOFFOFFOFFOFFOFFOFF $\bigcirc N$ \bigcirc	Bipolar		ON		display. SW2 on S2 controls whether the meter is in unipolar mode. Unipolar mode can display values between 0 to +2000 depending on the span range setting. Bipolar mode can displ between -9500 to +9500 depending on the span range setting bipolar range is not offered beyond \pm 9500 because of display					hipolar or bipolar +20000 n display values e setting. The		
Span Range Input Current (mA)AdjustmentAdjustmentSW1SW3SW4SW5SW6Dipswitch S2Dipswitch S2Dipswitch S2100 the current (mA)N/AN/A0FF<	Span Range S											
Input Current (mA)N/AN/AOFFOFFOFFOFFOFFOFFOFF2000 220 ± 2 100 ± 2 OFFOFFONOFFOFFOFFOFFIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Span Range				014/0			0.110	Dipswitch S2	Dipswitch S1		
Imput current (mA)N/AN/AOFFOFFOFFOFFOFFOFFOFFIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Adjustment	Adjustment	5W1	SW3	5W4	SW5	SWb				
2000220 ±2100 ±2OFFONOFFOFFOFFIII<	-	N/A	N/A	OFF	OFF	OFF	OFF	OFF				
	2000	220 ±2	100 ±2	OFF	ON	OFF	OFF	OFF				
	2500	288 ±2	125 ± 1	OFF	OFF	ON	OFF	OFF	ON U 1 2 3 4 5 6	ON 1 2 3 4 5 6		
	3000	255 ±2	150 ±2	OFF	ON	ON	OFF	OFF	ON 1 2 3 4 5 6			

0FF

ON

0FF

 263 ± 2

175 ±2

0FF

3500

0FF

ÖN



Large Format Digital Current-Loop Process Meter

Span Range Selection continued S1									
Span Range	Gain Adjustment	Offset Adjustment	S2 SW1	SW3	SW4	SW5	SW6	Dipswitch S2	Dipswitch S1
4000	260 ±2	200 ±2	OFF	ON	OFF	ON	OFF	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
4500	270 ±2	225 ±2	OFF	OFF	ON	ON	0FF	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
5000	250 ±2	250 ±2	0FF	ON	ON	ON	OFF	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
5500	275 ±2	275 ±2	0FF	OFF	OFF	OFF	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
6000	270 ±2	300 ±2	0FF	ON	OFF	OFF	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
6500	260 ±2	325 ±2	0FF	OFF	ON	OFF	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
7000	280 ±2	350 ±2	0FF	ON	ON	OFF	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
7500	263 ±2	375 ±2	0FF	OFF	OFF	ON	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
8000	280 ±2	400 ±2	0FF	ON	OFF	ON	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
8500	298 ±2	425 ±2	0FF	OFF	ON	ON	ON	ON 0 1 2 3 4 5 6	ON 1 2 3 4 5 6
9000	270 ±2	450 ±2	0FF	ON	ON	ON	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
9500	285 ±2	475 ±2	ON	OFF	OFF	OFF	OFF	ON A 1 2 3 4 5 6	ON 1 2 3 4 5 6
10000	250 ±2	500 ±2	ON	ON	OFF	OFF	OFF	ON 1 2 3 4 5 6	
10500	263 ±2	525 ±2	ON	OFF	ON	OFF	OFF	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
11000	275 ±2	550 ±2	ON	ON	ON	OFF	OFF	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
11500	288 ±2	575 ±2	ON	OFF	OFF	ON	OFF	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
12000	300 ±2	600 ±2	ON	ON	OFF	ON	OFF	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
12500	250 ±2	625 ±2	ON	OFF	ON	ON	OFF	ON 1 2 3 4 5 6	$ \begin{array}{c c} ON \\ \hline 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{array} $
13000	260 ±2	650 ±2	ON	ON	ON	ON	OFF	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6

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Large Format Digital Current-Loop Process Meter

Span Range S	election contin								
Span Range	Gain	Offset	S2	011/0		S1	0140	Dipswitch S2	Dipswitch S1
	Adjustment	Adjustment	SW1	SW3	SW4	SW5	SW6		ON
13500	270 ±2	675 ±2	ON	0FF	OFF	OFF	ON		
14000	280 ±2	700 ±2	ON	ON	0FF	OFF	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
15000	750 ±2	750 ±2	ON	OFF	ON	OFF	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
16000	320 ±2	800 ±2	ON	ON	ON	0FF	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
17000	765 ±2	850 ±2	ON	0FF	OFF	ON	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
18000	270 ±2	900 ±2	ON	ON	OFF	ON	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
19000	760 ±2	950 ±2	ON	0FF	ON	ON	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
20000	300 ±2	1000 ±2	ON	ON	ON	ON	ON	ON 1 2 3 4 5 6	ON 1 2 3 4 5 6
Decimal Point	Selection								
Decimal Placement	SW3	SW4	SW5	Dipswi	tch S2				
0000	OFF	OFF	0FF	ON 1 2 3		When mees	ring the physic	sical current the dec	simal placement
0.000	ON	OFF	OFF	ON 1 2 3		is fixed at 00 turned ON th).00. When a le decimal po	ny of the span range int placement has t	e switches are o be manually
00.00	OFF	ON	OFF	ON 1 2 3				N5 on S2 control the with the with the with the table.	e decimal point
000.0	OFF	OFF	ON	ON 1 2 3					
Trim Enable S									
Trim E	Enable SW6 Dipswitch S2 QTY 2 potentiometer								
OFF OFF			ON 1 2 3 4 5 6		enabled by SW6 on S2. In the "OFF" position, the trim is disabled and the meter runs from factory calibrated spa ranges. In the "ON" position the trim is enabled, allowing use to vary the gain and offset of the span range. The gai				
ON ON ON ON (see span the oper correction correction)			any number 9785 to +9 (see span ra the operato correction or	adjustment allows the user to adjust the span of the meter to any number between 1780 and 20300 (unipolar mode) and - 9785 to +9785 (bipolar mode) with the span range setting (see span range table above). If the meter is out of calibration the operator can use the gain or offset adjustment for correction only when one of the span range settings is set, not when displaying the physical input voltage.					



Large Format Digital Current-Loop Process Meter

TECHNICAL NOTES



1. Calibration

This meter is calibrated at the factory at the time of manufacture. If the meter is out of calibration, the operator can use the gain or offset adjustment (Trim Enable) for correction, only when one of the span range settings is set, not when displaying the physical input voltage. However, calibration may no long be within datasheet specifications.

2. Protection and Fusing

This meter contains an internal PTC fuse as well as other protective elements that are intended for protection against brief electrical transients and misconnect conditions. Additional external protective components such as fuses and transient suppressors may be required depending on the application in which the meter is deployed.

3. Noisy Power Supplies

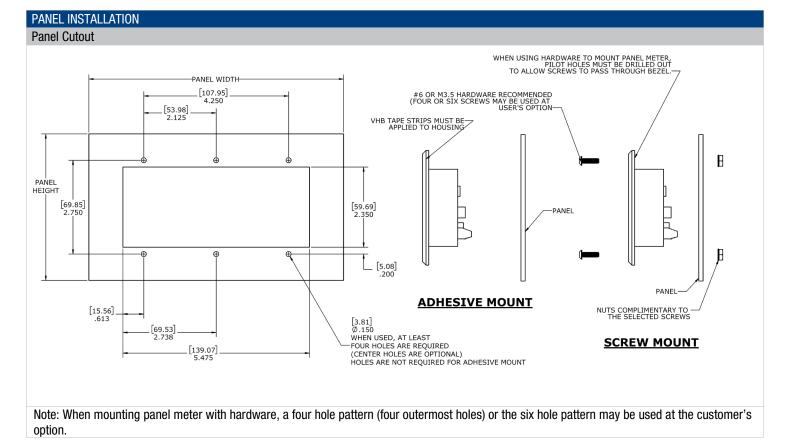
In systems with noisy power supplies, connecting an external, non-polarized capacitor across the +VS and -VS inputs can help reduce measurement errors. In certain situations, the use of twisted pair or shield wiring may be required.

4. Installation

IMPORTANT! To ensure safe and reliable operation, this meter must be installed and serviced by qualified technical personnel. Contact Murata Power Solutions if there is any doubt regarding their installation or operation.

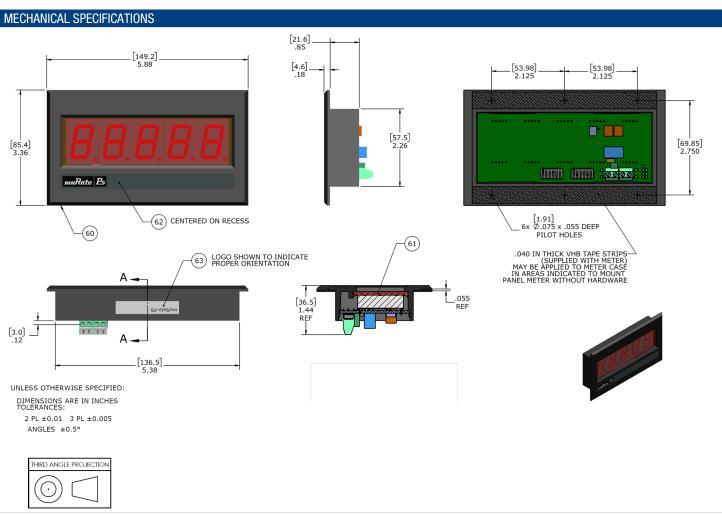
5. Over-range Limit

The meter will flash on and off when the meter exceeds its minimum or maximum input current. For example, if the meter is set in the 0-20 mA range, any input current below 0 mA or above 20 mA will cause the display to flash on and off.





Large Format Digital Current-Loop Process Meter



Murata Power Solutions, Inc. 129 Flanders Rd. Westborough, Ma 01581, USA. ISO 9001 and 14001 REGISTERED



This product is subject to the following operating requirements and the Life and Safety Critical Application Sales Policy:

Refer to: http://www.murata-ps.com/requirements/

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