

DW Series Digital Panel Meters

MODUTEC



Backlighting Options

Non-Backlit LCD Black on Grey Background

Get Digital Accuracy with an Analog Footprint

The DW Series is a cost-effective solution to retrofitting an analog panel cutout with a digital meter.

- The DW is easy-reading with large display and wider viewing angles
- · No additional wires makes installation faster and easier

AC AMPERES

- Automatic polarity indication
- Custom nomenclature optional

The MODUTEC DW Series is available as DC and AC Power Monitors and Process Monitors. Please refer to the DW Spec sheet found on our Web site www.jewellinstruments.com for specification and part numbers.

Specifications

Display	
Digits:	3 ¹ / ₂ (± 1999)
Туре:	7 segment reflective LCD
Digit Height:	0.5" (12.7mm)
Polarity:	Automatic (-) displayed
Decimal Point:	Factory set. Provisions for selection by user optional
Overload:	Three lower digits blank for readings greater than 1999 counts

DC Inputs

Input Resistance:

Input Voltage Drop (current Meters):20Overvoltage (voltmeters):±Accuracy:0.Tempco:10Conversion Rate:2.Normal Mode Rejection:60Common Mode Rejection:>8Common Mode Voltage Range:±Operating Range:32Storage Temperature:-4

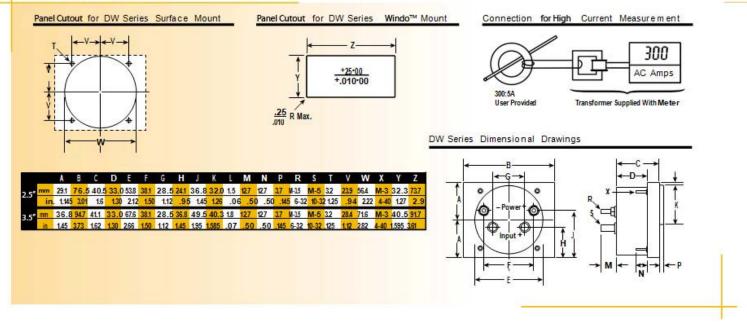
200mV & 2V ranges >100megohm, 20V & 200V ranges 1 megohm 200mV typical at fs \pm 300 VDC 0.1% \pm 2 digits 100 ppm/°C typical 2.5 per second 60db typical >86db \pm 1V maximum 32°F to 122°F (0°C to +50°C) -4°F to 158°F (-20°C to + 70°C)

Applications

- Telecommunications
- Water Purification
- Sewage Treatment
- ► Flow
- Process
- Desalinization
- AC & DC Amps
- ► AC & DC Volts



DW Series (mm/in)



DW Series Specifications				
Range	2.5" Meter Part Number	3.5" Meter Part Number		
DC Microammeters				
0-200	2DW-DUA-200-*	3DW-DUA-200-*		
DC Milliammeters				
0-2	2DW-DMA-002-*	3DW-DMA-002-*		
0-20	2DW-DMA-020-*	3DW-DMA-020-*		
0-200	2DW-DMA-200-*	3DW-DMA-200-*		
DC Milliammeters — 2 wire, self-powered				
4-20 ¹	L2DW-DMA-020	L3DW-DMA-020		
4-20 ²	P2DW-DMA-020	P3DW-DMA-020		
Requires 1.5 VDC Loop-drop				
² Requires 2.75 VDC Loop-drop				

To Order: Select range and size from listing above. Complete the catalog number by replacing ***** with the power options suffix from below.

Power Option	Description	Suffix
115VAC	115VAC :±10%, 50 or 60 Hz	P115
230VAC	230VAC :±10%, 50 or 60 Hz	P230
5VDC	+ 5VDC :±5% at 3mA, typical ³	P5
10-28VDC (auto & marine)	+ 10 to +28VDC at 5mA, typical ³	P10-28
Battery	9VDC nom., 7.2 to 12 VDC at 1501-A, typical ⁴	Р9

³Meters must have low input connected to DC supply return ⁴Meters must have input isolated from battery

Specifications and ordering information for DC & AC power monitors and Process Monitors can be found on our website.

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DW Series Specifications (continued)

DC Power Monitors	
Range:	10VDC to 28VDC
Resolution:	0.1VDC
Accuracy:	$(\pm 0.1\% + 2 \text{ counts})$ with shunt amp
Display:	0.5" high digits LCD
Power Requirements:	10VDC to 28VDC @ 20MA
Operating Temperature:	32°F to 122°F (0°C to 50°C)
Storage Temperature:	-4°F to 149°F (-20°C to 65°C)
0	

Circuit boards are conformal coated for protection

Volt Meters: M	arine battery meters		
Size	Part Number		
2 ¹ / ₂ "	P2DW-DVV-	10/28	
3 ¼ ₂ "	P3DW-DVV-	10/28	
Amp Meters			
Size	Range	Shunt	Part Number
2 ¹ / ₂ "	0-50.0A	50mV	2DWS-DAA-050-P10-28
2 ¥2"	0-500A	50mV	2DWS-DAA-500-P10-28
2 ¹ / ₂ "	0-10.00A	100mV	2DWS-DAA-010-P10-28
2 ¹ / ₂ "	0-100.0A	100mV	2DWS-DAA-100-P10-28
2 ¥2"	0-1000A	100mV	2DWS-DAA-1000-P10-28
3 ¹ / ₂ "	0-50.0A	50mV	2DWS-DAA-050-P10-28
3 ¹ / ₂ "	0-500A	50mV	2DWS-DAA-500-P10-28
3 ¥2"	0-10.00A	100mV	2DWS-DAA-010-P10-28
3 ¹ / ₂ "	0-100.0A	100mV	2DWS-DAA-100-P10-28
3 ¹ / ₂ "	0-1000A	100mV	2DWS-DAA-1000-P10-28

AC Power Monitors

Range:	80-130VAC, 160-260VAC
Resolution:	1V
Accuracy:	(±0.5% + 1 count)
Display:	0.5" high digits LCD
Power Requirements:	2VA Typical
Operating Temperature :	32°F to 122°F (0°C to 50°C)
Storage Temperature:	-4°F to 149°F (-20°C to 65°C)

Circuit boards are conformal coated for protection

Volt Meters			
Size	Range	Part Number	
2 ¹ / ₂ "	80-130VAC	P2DW-AVV-80/130	
3 ¹ / ₂ "	80-130VAC	P3DW-AVV-80/130	
2 ¹ / ₂ "	160-260VAC	P2DW-AVV-160/260	
3 ¥2"	160-260VAC	P3DW-AVV-160/260	



DW Series Specifications (continued)

0-50 AMP AC1
0.1 AMP
(±0.5% + 5 counts)
0.5" high digits LCD
2VA Typical
32°F to 122°F (0°C to 50°C)
-4°F to 149°F (-20°C to 65°C)

Circuit boards are conformal coated for protection Calib

Amp Meters		
Size	Power	Part Number
2 ¹ / ₂ "	115VAC	2DW-AAAX-050-P115
3 ¹ / ₂ "	115VAC	3DW-AAAX-050-P115
2 ¥2"	230VAC	2DW-AAAX-050-P230
3 ½"	230VAC	3DW-AAAX-050-P230

Process Monitors			
Туре	Range	2 1/2" Meters Part Number	3 1/2" Meters Part Number
DC Milliammeters (Loop Receiver, 4-wire)	4-20 10-50	N2DW-DMA-020-* N2DW-DMA-050-*	N3DW-DMA-020-* N3DW-DMA-050-*
DC Millivoltmeters	0-200	2DW-DMV-200-*	3DW-DMV-200-*
DC Voltmeters	0-2 0-20 0-200	2DW-DVV-002-* 2DW-DVV-020-* 2DW-DVV-200-*	3DW-DVV-002-* 3DW-DVV-020-* 3DW-DVV-200-*

To Order: Select range and size from listing above. Complete the catalog number by replacing ***** with the power options suffix from below.

Power Options:		
Option	Description	* Suffix
115VAC	115VAC ±10%, 50 or 60 Hz	P115
230VAC	230VAC ±10%, 50 or 60 Hz	P230
5VDC	+ 5VDC ±5% at 3mA, typical ²	P5
1-28VDC (auto & marine)	+ 10 to +28VDC at 5mA, typical ²	P10-28
Battery	9VDC nom., 7.2 to 12 VDC at 150μA, typical ³	Р9

¹ For higher currents, a 0-5 Amp AC input version is available for use with a user supplied current transformer. The value of full-scale current displayed for the 5 Amp input needs to be specified. e.g.: 2DW-AAAX-300-P115 would be a 2 V_2 ", 115VAC powered meter for use with a customer supplied 300 to 5 Amp current transformer.

² Meters must have low input connected to DC supply return

³ Meters must have input isolated from battery