DMWH300

Monitors Accumulated Energy & Demand

Accumulated Energy & Demand Monitor

Key Features

- Single Phase And/Or Three Phase Metering
- Revenue Accurate Readings Of Bi-Directional Energy, Power & Demand
- Easily Programmed for Any CT or PT Ratio
- RS232 and RS485 Communications Available
- Nonvolatile Memory
 No Battery Needed
- 7 Digit Display
 No Multiplying Factor
- Rugged Utility Grade Design
- Superbright LED Option for Direct Sunlight Applications

Description

The DMWH 300 is a highly accurate, low cost, bi-directional energy demand meter. This utility grade, microprocessor.based unit monitors kilowatts, kilowatt-hours and kilowatt demand in utility, industrial and commercial applications. When energy demand rises above expectations, the DMWH 300's control outputs trigger to shed load or alarm.

Programmable Settings

DMWH 300 monitors can be programmed to handle any CT or PT ratio. Their programming and reset features are password protected.

Nonvolatile Memory

A nonvolatile serial EEPROM safely stores the unit's readings when it is powered down. There's no need for a battery.

Analog Outputs

The unit offers a 0-1mA or 4-2omA analog output for wattage readings. A Form C KYZ pulse is also available for watt-hour readings.

Digital Communication

Both RS232 and RS485 communications are available. The unit uses an ASCIIbased protocol.

Alarm Limits & Relay Outputs

The DMWH 300 offers set points and Form C dry contact relays for over and under wattage, both positive and negative.

Utility Grade Construction

With a rugged, utility-grade design, the DMWH 300 is built to run flawlessly for



AG KILOWATTS MODE ADV SET Electro Industries GaugeTech

KWD

C Electro Industries

years. The device also exceeds all IEEE C37.90.1 surge withstanding standards.

Superbright Display

This unit is available in standard brightness for indoor applications or superbright for viewing in direct sunlight.

Product Applications

- Sub-Metering Energy Usage
- Cost Allocation Applications
- Commercial Facilities
- Utility Substations
- Power Generation Applications

Revenue Accurate to Utility Metering Standards



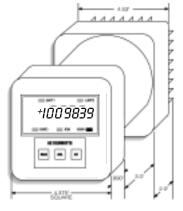
DM SERIES

Measures Wat Watt-Hours & Watt Demand

I MT2

KWH

Dimensions & Typical Wiring Information



INPUT VOLTAGE RANGE

- 150V Phase to Neutral (also used with PTs for extended input range)
- 300V Phase to Neutral, Up to 600V Phase to Phase (Option G)

Ardaring Information

INPUT CURRENT RANGE

10A Maximum

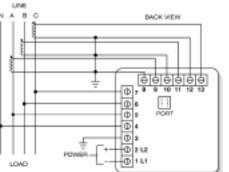
BURDEN

- Voltage: 0-1VA Maximum
- Current: 0.1VA Maximum

COMMUNICATION

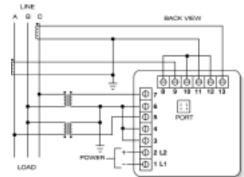
FORMAT

- 1 Start Bit, 8 Data Bits, 1 Stop Bit
- Programmable from 1200 to 4800 Baud



3-PHASE, 4-WIRE WYEs with DIRECTVOLTAGEANDCTs

3-PHASE OPENDELTA



Note: Download manual from www.electroind.com to get additional wiring configurations.

ACCURACY

- 0.4%, +1- Digit Resolution
- Instantaneous: 4 Digits
- Total Energy: 6 Digits
- Meets ANSIC-12 1995

INPUT WITHSTANDING

- Voltage and Current: Continuous 200% Rated
- Surge:10x Rated Per 3 Seconds
- Surge Withstanding: Per IEEE C37.90.1

SENSING METHOD

True RMS

FREQUENCY RANGE

Fundamental 45-75Hz

CONTROL POWER

- 115V AC ±20%,6VA 47-400Hz (Option 115A)
- 230VAC ±20%, 6VA 47-400Hz (Option 230A)
- 24-48V DC ±20% 6VA (Option D)
- 125V AC or DC ±20%, 6VA universal (Option D2)

OPERATING TEMPERATURE

■ -20°C to +70°C

I/O ISOLATION

- 2500V AC, 60Hz (minimum isolation between any input and output)
- UPDATE TIME
- 1 Second

Model	Connection	Power Labeling	Operat Voltag	•	Control Power		Relay/Pulse Option		Display Brightness
Option Numbers:	Specify a unit by writi If a specification is gi	ing its option numbers l ven, it will be preprogra	below. See sample. Spe ammed in the factory.	cify your CT an	nd PT ratio, Delta	or Wye	System.		
	-	-	-	-		-		-	
Example: DMWH 300	- 3E	- кw	- 120	-	115A	-	NL	-	BRT
DMWH 300	3E 3 Element Wye System	KW Kilowatts	120 120/20	3	115A 120VAC		NL 2 Relays and 1 KYZ Pulse		BRT Super Bright for Direct
	2.5E 2 .5 Element Wye System	MW Megawatts	G 277/48)	230A 230VAC±20%				Sunlight
	2E 2 Element Delta System				D 24-48VDC				
Accesso	ries				D2 125VAC or DC				
K110			SF485DB			SDFI-1 or SDFI-20			

Mounting Kit

RS232 Communication Adapter

Remote terminal block mounting kit with 36" cable and mounting bracket.

Limited to a distance of 50 feet between the central computer and the DMWH 300. RS485 Multi-Drop, Daisy Chain Communication Adapter The maximum distance is 4000 feet between the computer and DMWH 300. 2 Channel Analog Outputs

SDFI-1 provides 0-1mA output. SDFI-20 provides 4-20mA output. Outputs can can be mapped to any reading. Both channelsare bi-directional.

Unicom 2500-F

Interface Converter

RS485 to RS232 to Fiber Converter.



Electro Industries/GaugeTech

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