



LITE DATA ACQUISITION SYSTEM

WDAS-L3

FEATURES

- ANSI C12.20 revenue-grade energy metering
- Universal compatibility with Modbus/RTU and Modbus/TCP devices
- Second-by-second monitoring and control for distributed generation assets
- Intuitive installation and configuration

SPECIFICATIONS

GENERAL	
Dimensions	11.82 x 15.75 x 7.37 in (300 x 400 x 187 mm)
Weight	13.5 lb (5.7 kg)
Ratings	UL 508A
Mounting	Non-penetrating surface-mount installation with included flange kit
Warranty	3 years against defects in materials and workmanship
ENVIRONMENTAL	
Operating Temperature	-20 to 70°C, 20-90% relative humidity non-condensing
Protection Ratings	NEMA 4X / IP67, outdoor-rated
POWER SUPPLY	
Input Voltage ¹	180-500Vrms L-L
Input Protection ²	UL 489 branch-circuit protection (10A, C-Curve) on line inputs
Power Consumption ³	Average: 9W Peak: 43W
External	Up to 800mA at 24V DC available for external devices and sensors Switched via UL 1077 supplementary protector

DATA ACQUISITION	
Resolution	10 second nominal Configurable down to 1 second
Device Limit	250 devices over ethernet 32 devices over RS-485 Contact sales@wattch.io for options to increase device count
Compatibility	Modbus/RTU, Modbus/TCP, and OPC UA Contact sales@wattch.io for an up-to-date hardware compatibility list
Interfaces	(1) RS-485 (2) spare 10/100 Ethernet ports (switch included)
Storage Capacity ⁴	Up to 3 months of offline data storage capacity
Connectivity	LTE Cat 4 Modem with multi-carrier compatibility (requires Wattch data plan)
METERING	
CT Inputs	(3) 500A CTs included Compatible with any 333 mV CT
Accuracy ⁵	Typical 0.2%, Max 0.5% (ANSI C12.20)

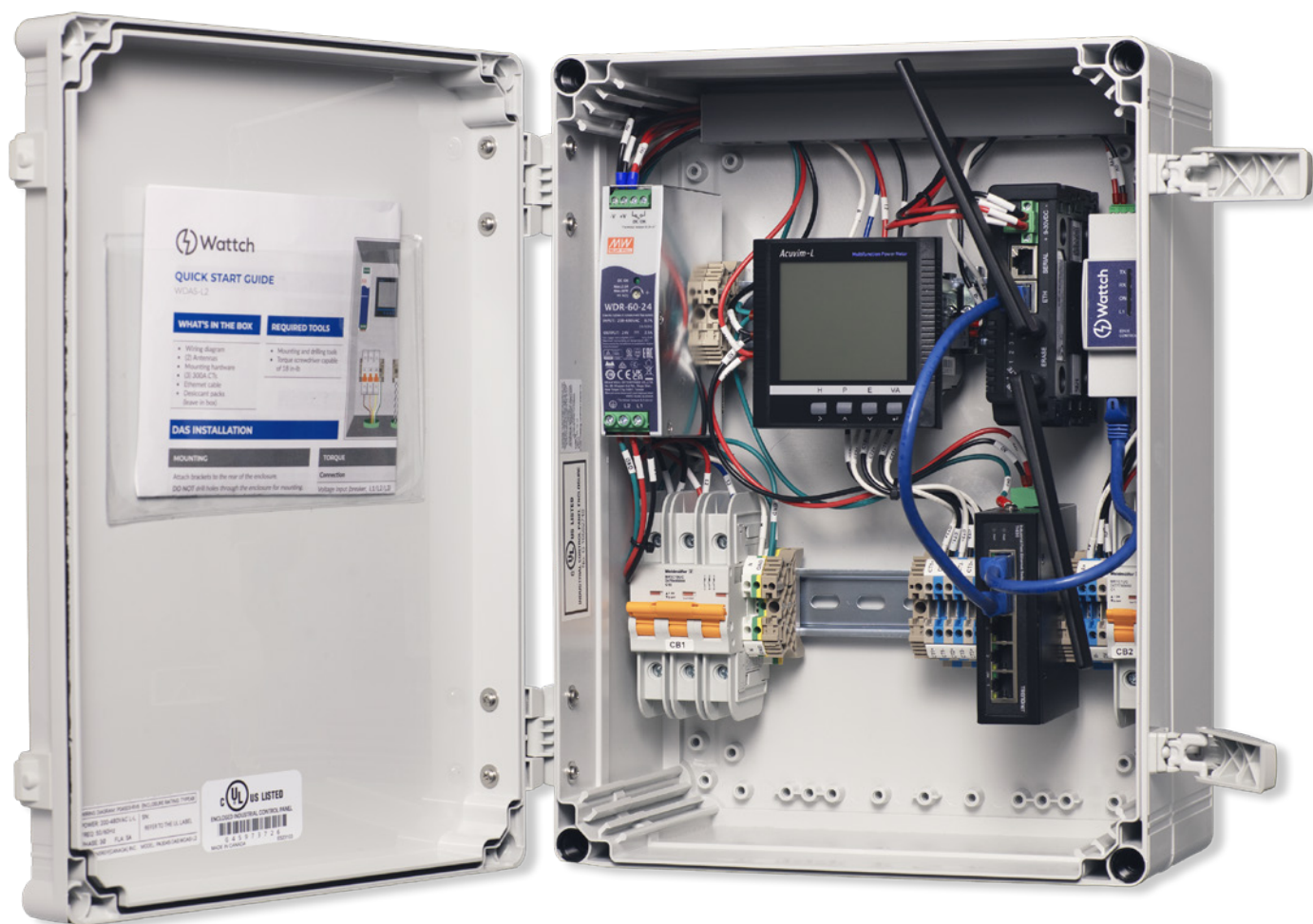
¹ A neutral connection is required to power the meter

² An upstream means of disconnect must be provided in order to de-energize the DAS

³ Sum of all three phases (if connected), highest draw on L1 to power the 24V rail

⁴ Exact value varies with the number of configured devices

⁵ Applies from 1% to 120% of rated CT current



BILL OF MATERIALS

GENERAL

Enclosure	Ensto WPCP304018G
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POWER SUPPLY

Power Supply	Mean Well WDR-60-24
AC Breaker	Weidmüller BR3C10UC
RS-485 Supplementary Protector	Weidmüller BR1C1UC

DATA ACQUISITION

Production Meter	AccuEnergy Acuim CL-D-mV-P2V4-WEB2-D Includes (3) AcuCT RCT16-500 current transformers
Data Logger/Controller	Wattch Edge Controller

COMMUNICATIONS

LTE Modem	Digi International IX10-00G4
Ethernet Switch	TRENDnet TI-E50