

OSI ENERGY SCOUT MINI WATTHOUR METER MODEL ESM-

DESCRIPTION

The model ESM Mini Watthour meter is used to measure energy at the input to electrical load centers or branch circuits. The unit displays energy in kWh. The unit is DIN-rail mounted and has optional indoor and outdoor enclosures. Solid-core current transformer is included.

MODEL SELECTION

SYSTEM CONFIGURATION	VOLTAGE INPUT (Vac)	MODEL ESM-
1-Phase 2-Wire	120	15E

CT OPTIONS
Pre-wrapped current transformers are available to provide for higher current ratings. Consult factory for additional information.

ENCLOSURE OPTIONS	
DESCRIPTION	ENCLOSURE MODEL
Indoor, Surface Mount	ENC-ISM
Indoor, Flange Mount	ENC-IFM
Outdoor, Surface Mount	ENC-OSM

NOTE: Up to 7 Mini meters will fit in one enclosure.
See ENC spec sheet for more information.

FEATURES

- Easy-to-install DIN-rail package
- Indoor or outdoor package options

APPLICATIONS

- Input to electrical load centers
- Branch circuits



18 MONTH WARRANTY



ORDERING INFORMATION
Example: 1Φ2W Watthour Meter with 120Vac and 50Aac Input, with Solid-core CT in Outdoor Surface-mount Enclosure
ESM-15E with ENC-OSM

SPECIFICATIONS

INPUT

Current Range (with CTs)0 - 50Aac
Over-range without damage.....125% F.S.
Voltage..... Nominal by Model120V_{L-L}
Operating Range..... 120Vac ±30%
Power Factor..... any
Frequency Range 47-63Hz
Power Consumption..... <1VA

DIELECTRIC TEST

Input/Output/Case..... 2250Vac

OUTPUT

Pulse Value 1.00Wh/Pulse, polarity sensitive
Contact Closure (Low-impedance)..... low<3Ω, high>1MΩ
Duration 50% duty cycle or 80ms, whichever is greater

ACCURACY..... Class 1.0

DISPLAYED VALUES

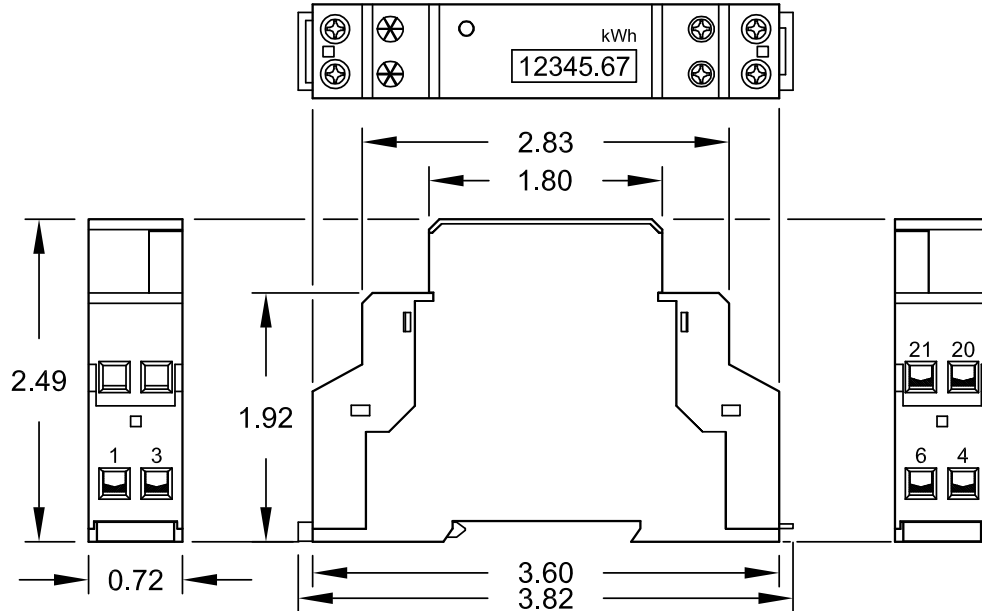
Energy (kWh)..... Resolution XXXXX.XX
(Unit displays energy without sign.)

PHYSICAL & ENVIRONMENTAL

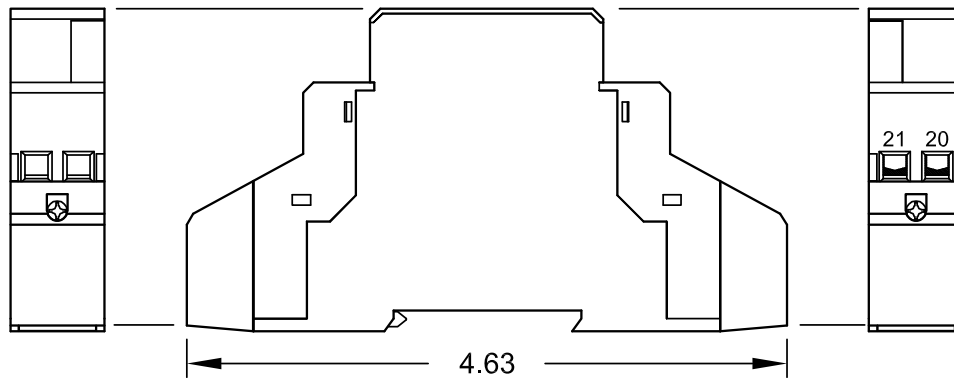
Operating Range.....-20° to 60°C
Storage Range.....-30° to 70°C
Operating Humidity 0-85% non-condensing
Weight..... Meter Only..... 2.4 oz
Meter and CT 5.6 oz
Termination (Screw Compression)..... 20-16 AWG
Enclosure Material ABS

OHIO SEMITRONICS, INC. 4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264
PHONE: (614) 777-1005 * FAX: (614) 777-4511
WWW.OHIOSEMITRONICS.COM * 1-800-537-6732

CASE DIMENSIONS

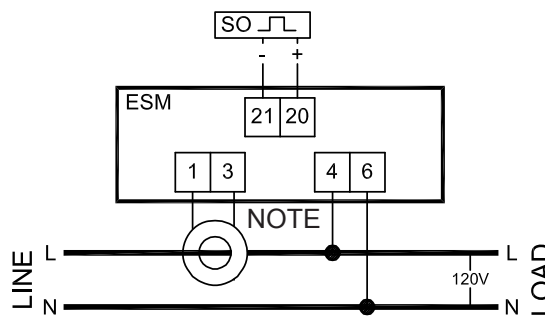


WITH TERMINAL COVERS INSTALLED



Dwg# 0902-00841-B Rev A

CONNECTION DIAGRAM



NOTE: Connections are phase insensitive

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