

DESCRIPTION

The model ESP2 Watthour meter is used to measure energy at the input to electrical load centers or branch circuits. The unit displays Volts, Amps, Watts and power factor, in addition to import and export energy. The unit is DIN-rail mounted and has optional indoor and outdoor enclosures. 200A solid-core and split-core current transformers are available.

FEATURES

- Easy-to-install DIN-rail package
- Indoor or outdoor package options
- Optional split-core current transformers

APPLICATIONS

- Input to electrical load centers
- Branch circuits



MODEL SELECTION

| SYSTEM CONFIGURATION | VOLTAGE INPUT (Vac) | MODEL ESP2- |
|-------------------------|---------------------|-------------|
| 1-Phase 2-Wire* | 120 | 15EDS-N |
| 1-Phase 2-Wire* | 240 | 23EDS-N |
| 1-Phase 3-Wire* | 120/240 | 25EDS-N |
| 1-Phase 3-Wire Network* | 120/208 | 354EDM-N |
| 3-Phase 3-Wire* | 208 | 353EDM-N |
| 3-Phase 4-Wire* | 120/208 | 354EDM-N |

* 1Φ2W models require 1 CT, 1Φ3W and 3Φ3W models require 2 CTs, 3Φ4W models require 3 CTs. See CT options table.

18 MONTH WARRANTY



ORDERING INFORMATION

Example: 3Φ3W Watthour Meter with 208Vac and 200Aac Input, with Split-core CTs in Outdoor Surface-mount Enclosure

ESP2-353EDM-N with SCT-013-200 (Qty 2) and ENC-OSM

CT OPTIONS

| RATING (Aac) | CORE STYLE | CABLE LENGTH | WINDOW DIA. (in.) | CT MODEL |
|--------------|------------|--------------|-------------------|-------------|
| 200 | Solid | 6 ft. | 0.51 | BCT-013-200 |
| 200 | Solid | 6 ft. | 0.59 | BCT-015-200 |
| 200 | Split | 5 ft. | 0.51 | SCT-013-200 |

ENCLOSURE OPTIONS

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

SPECIFICATIONS

INPUT

Current Range (with CTs)0 - 200Aac
 Over-range without damage.....125% F.S.
 Voltage..... Nominal by Model 120, 208, 240V_{L-L}
 Operating Range..... 120, 208, 240Vac..... ±30%
 Power Factor..... any
 Frequency Range 47-63Hz
 Power Consumption..... <1VA

DIELECTRIC TEST

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

OUTPUT

Pulse Value 1.25Wh/Pulse, polarity sensitive
 Contact Closure (Low-impedance)..... low<3Ω, high>1MΩ
 Duration 50% duty cycle or 80ms, whichever is greater
 Serial, 1200 baud (E,7,1) RS-485

ACCURACY Class 0.5

DISPLAYED VALUES (5s per value)

Resolution
 Energy (Import and Export)..... (kWh)... XXXXX.XX
 Volts (Per-Phase)..... (Vac)..... XXX.X
 Amps (Per-Phase) (Aac)..... XXX.X
 Power (Per-Phase and Total)..... (W) XXXXX
 Power Factor (Per-Phase w/Direction) ... (C or L)..... X.XX

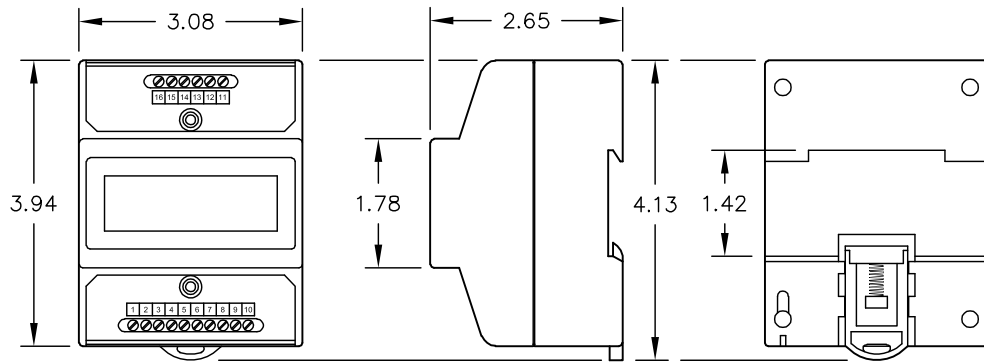
TIME OF USE (Parameters Available via RS-485 Port)

Real-Time Clock Calendar with Battery Back-up
 4 Tariff Periods Per Day
 Max. Demand for 15-, 30-, or 60-Minute Intervals.
 Resettable Demand via RS-485 Port

PHYSICAL & ENVIRONMENTAL

Operating Range..... 1-Phase Models-30° to 55°C
 3-Phase Models-30° to 70°C
 Storage Range..... 0° to 40°C
 Operating Humidity 0-85% non-condensing
 Weight..... 11.3 oz
 Termination (Screw Compression)..... 20-16 AWG
 Enclosure Material ABS

CASE DIMENSIONS



FRONT VIEW SHOWN WITH TERMINAL COVERS REMOVED

TERMINAL BLOCK ACCESS
HOLE DIAMETER - .105"

Dwg# 0902-00836-B

CONNECTION DIAGRAMS

