POWER METER

RIBTPM413-BC

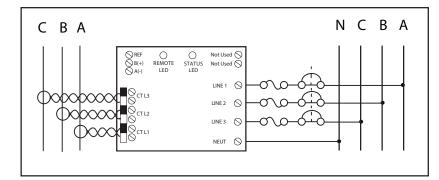
Enclosed BACnet® MS/TP Revenue Grade Power Meter for single or three phase systems













SPECIFICATIONS

Power Input Rating: Powered from Line 1 to Neutral,

120-277 Vac, < 2 VA

Headers: Pluggable screw terminal, accepts

up to 12 AWG stranded copper

wire

Frequency: 50/60 Hz Operating Temperature: -4 to 158 °F Storage Temperature: -40 to 185 °F

Humidity: 5 to 95% (noncondensing)

Altitude: Up to 2,000 m Remote LED: Green = Rx Amber = Tx

Status LED: See Bulletin B2646

Dimensions: 4.28" x 7.00" x 2.00" with .75" NPT Nipple

Track Mount: MT212-6 mounting track

provided

Approvals: CE, UL Listed, UL 61010-1 and UL

61010-2-30, C-UL, RoHS, FCC Part

15 Class B

Housing Ratings: UL Listed, NEMA 1, C-UL, CE Approved,

UL Accepted for Use in Plenum, Also available NEMA 4 / 4X

Network Media: 18-22 AWG, 2-Core, shielded

twisted pair

For End of Line (EOL) device, use

Network Termination: 120 Ω Resistor. See Bulletin

B2646 for details

Polarity: Network is polarity sensitive Baud Rate: 9600, 19200, 38400, 57600,

76800, 115200; set via BACnet®

Metered Circuit:

Voltage Range: 120-277 Vac L-N (CAT III);

1P 2/3W, 3P 4W

Voltage Overload: 1.1 x Voltage Range Voltage Burden: < 0.1 VA @ 277 Vac Frequency Range: 45 - 65 Hz Current Transformer: 333 mV Output Current Overload: 1.2 x CT Output Power Overload: 1.2 x Voltage Range x CT

Output

Measurement Accuracy:

Voltage: 0.5%, < 0.2% typical from 80-120% **Current:** 0.5%, < 0.2% typical from 10-120% **Power:** 0.5%, < 0.2 % typical from 10-120% Power Factor: 0.5% between 0.5 and 1.0

Accessories:

CT-25A-333, CT-50A-333, CT-100A-333

Notes:

-See Bulletin B2646 for installation instructions

-Bi-directional for NET metering

- Order NEMA 4 housing by adding "-N4" to end of model number. (RIBTPM413-BC-N4)

- Order with grey lid by adding "-GY" to end of model number. (RIBTPM413-BC-GY)

- Order NEMA 4 housing with grey lid by adding "-N4-GY" to end of model number. (RIBTPM413-BC-N4-GY)

BACnet® Details:

-Device ID Default: 277050

-MAC Address Default: 50

-Baud Rate Default: 38400

-CT-Ratings (AV-8005) must be updated with the current rating of

the CTs used with the device.

-See Bulletin B2646 for further details



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C. Seller is not liable for any damage as a result of any delay or failure to deliver due to any act of God, act of Buyer, embargo or other governmental act, regulation or request, fire, accident, power outage, strike, civil unrest, weather, slowdown or other labor difficulties, war, riot, act of terrorism, delay in transportation, defaults of common carriers, inability to obtain necessary labor, materials or manufacturing facilities or, without limiting the foregoing, any other delays beyond Seller's control. Buyer's sole and exclusive remedy for any delays or for Seller's inability to deliver Products for any reason, in each case, that persists for more than ninety (90) days, is to cancel the order pursuant to Seller's Order Policies and Guidelines available upon request.

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The warranty does not apply to: (a) Damage caused by accident, abuse, mishandling, or dropping; (b) Products which have been subjected to unauthorized repair, opened, or taken apart; (c) Products not used in accordance with directions; (d) Damages exceeding the cost of such Product; and (e) Damages caused by lightning, water, or condensation. If warranty service is required during the Warranty Period, and if examination shall disclose to Seller's satisfaction

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Seller shall not be liable for loss, damage, or expense directly or indirectly caused from the failure of Products to perform as expected.

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- 9. CANCELLATIONS: Cancellation or deferment of all or part of an order is subject to acceptance by the Seller. If accepted, any reduction in quantity of any item to less than 85% of the original item quantity is subject to a 15% cancellation charge. If an order cancellation is accepted, the Buyer will make delivery and pay for all material manufactured and in stock or in process at time of notice for such order, and for any special materials on orders for which the Seller must take delivery.
- 10. EXPORTS. Buyer agrees that it will comply with any and all U.S. Export Controls and will not pay for, resell, transfer or knowingly sell Products in violation of U.S. Export Controls. If Buyer resells Products within or exports Products to a country or region which imposes upon Seller and/or Buyer an obligation to fund or undertake reuse, recycling, composting, recovery of Products, or any similar obligation (e.g., the European Union's Waste Electrical and Electronic Equipment Directive, EC 2002/96/EC) (the "Obligations"), Buyer shall wholly undertake the Obligations or duties and shall be entirely responsible for all associated costs therewith. Seller shall have no obligation to reimburse Buyer for execution of the Obligations. In the event that Seller is named in a proceeding based upon the Obligations, Buyer shall indemnify, defend and hold Seller harmless from all actions related thereto, including all civil and governmental actions.
- 11. MISCELLANEOUS. This Agreement is governed by the laws of the State of Indiana, without giving effect to its conflict of laws principles. Buyer hereby irrevocably consents and submits to the exclusive jurisdiction and venue of the state and federal courts in Marion County, Indiana. The United Nations Convention for Contracts for the International Sale of Goods is explicitly excluded. Each provision contained in this Agreement constitutes a separate and distinct provision severable from all other provisions. If any provision (or any part thereof) is unenforceable under or prohibited by any present or future law, then such provision (or part thereof) will be amended, and is hereby amended, so as to be in compliance with such law, while preserving to the maximum extent possible the intent of the original provision. Any provision (or part thereof) that cannot be so amended will be severed from this Agreement; and, all the remaining provisions of this Agreement will remain unimpaired. No modification, addition or deletion, or waiver of any rights under this Agreement is binding on a party unless made in a non-preprinted agreement clearly understood by the parties to be a modification or waiver, and signed by a duly authorized representative of each party.