Equipment Specification
Document No.: 4350.242
Item No.: 072-80451
Asset Suite: 80451
Originating Department: Distribution Engineering

High Voltage Multiple Reading Ammeter

1. Introduction

This is a general specification that covers the minimum requirements for the high voltage multiple reading ammeter to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to PREPA / LUMA on previous orders, will not have to furnish samples at bid opening. The material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Quantity/Literature

Descriptive and technical literature must be supplied by vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of PREPA's and/or LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

4. Markings

4..1. Containers shall be marked outside with LUMA Energy's purchase order, item number, name and size, net and gross weight, manufacturer's name, and lot number.

4..2. Packaging labels and tags shall be waterproof.

5. Equal or Approved Equal to

Sensorlink Ampstik Plus 8-020 XT Plus / 8019.

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6. Packaging

All material and equipment shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

7. Number Per Package (Logistics)

One (1) per package or as required by LUMA Energy.

8. Acceptance Criteria

8..1. Test required: certified by external laboratories.

8..2. Latest applicable codes, standards, and other regulations.)

9. Description

9..1. Ammeter to be used to safely take accurate measurements of AC current in the distribution and transmission system when performing high voltage live-line load checks for balancing, switching or breaking load.

9..2. Operating voltage shall range from 0-500 kV RMS (line to neutral) at 60 Hz.

9..3. Shall have linear current sensors that accurately measure loads from 1 to 5000 Amps

9..4. Unit shall have the ability to hold a minimum of four readings.

9..5. Unit shall have a current sensor or jaw opening of at least 2.5 inches, with an approximate weight of 3 lbs.

9..6. Unit shall have a digital display, with automatic ambient light sensor and single button operation.

9..7. The housing of the unit shall shock- and water-resistant molded urethane. It shall have an adapter for universal hot stick and the internal structure be made of long glass fiber reinforced thermoplastic polyurethane, non-conductive and extra tough to protect the sensor.

9..8. Unit shall use a 9 V alkaline or lithium battery.

9..9. The unit shall be provided with a case of storage.

9..10. It shall be capable of operating within temperature range of 0°C to +50°C.

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10. Inspection

The acceptance of any material or equipment shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such materials were found later to be defective.

11. Proposal Information

11..1. Submitted proposals must include:

a. Technical information

b. Table of Compliance completed by the bidder with reference. (See Appendix 1)

— End of Specification —

Document History

Date:	05/17/2022	
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Appendix

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Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P/F)	Comments
1	Specification	The Proponent complies with the corresponding specification document.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document.		
3	Electrical Characteristics	0-500 kV 1-5000 Amps		
4	Features	• Hold a min. of 4 readings • Current sensor opening of 2.5 inches min. • Unit shall have a digital display, with automatic ambient light sensor and single button operation. a. Unit shall use a 9 V alkaline or lithium battery.		
5	Material	Shock- and water-resistant molded urethane. Universal hot stick adapter. Internal structure non-conductive, extra tough.		
6	Temperature	Operating within temperature range of 0°C to +50°C.		
7	Accesories	The unit shall be provided with a case of storage.		