

BA-PHALABORWA MUNICIPALITY MEMORANDUM - BUDGET AND TREASURY _

То	: Prospective service provider
From	: SCM /stores
Date	: 15/07/2024
Enquiries	: Procurement Office
Telephone	: 015 780 6361/62
Ref	: 1506

Kindly furnish this office with a written quotation for supply of goods/ services as detailed below. The quotation must be submitted on the letterhead of your Business and Brought to our

offices No.3 Nyala Street, Phalaborwa not later than 23/07/2024 at 12H00

Please number your quotes (Your Ref no)

	Description	Price/unit	Delivery
QUANTITY		(Inc. Vat)	Period
30	E550 CONVENTIONAL METERS FOR LPU CUSTPMERS		
	DIRECT ON LINE WITH 125A IMAX		

The following conditions will apply:

- > Price (s) quoted must be valid for at least thirty (30) days from date of your offer.
- > The municipality retains the prerogative to reject any quotes it deems to be excessive
- > A firm delivery period must be indicated.
- > Tax Clearance Pin
- > A service provider be registered with central supplier database (CSD)
- Completed MBD4 (Declaration of Interest) Form
- > Evaluation criteria: 80/20 (Whereby 80 is for price and 20 is for Objective goals)

20 is further evaluated: 20 for 100% Black owned;

18 for +51% Black owned; and

14 for Less than 51% Black owned

Ba-Phalaborwa Municipality complies with the requirements of Protection of Personal Information Act 4 of 2013 and Promotion of Access of Information Act 2 of 2000.

The E550 direct connected I&C meters record active and reactive energy consumption in 1-phase 2-wire, 2-phase 3-wire, 3-phase 4-wire and 3-phase 3-wire (no neutral) networks.

Basic Version

The basic version provides energy registers for tariffication, red test diodes for active and reactive energy, an optical interface for meter reading and an electrical interface.

E550 Series 2 ZMG310AR/CR - Technical specifications

General

Voltage

Nominal voltage Un ZMG310xR
3 x 220/380 V to 240/415 V
3 x 110/190 V to 133/230 V
3 x 110/190 V to 277/480 V

Voltage range 80% to 115% Un

Frequency

Nominal frequency fn 50	or 60 Hz
Tolerance	± 2%

Application

1 phase 2 wire; 2 phase 3 wire; 3 phase 4 wire, 3phase 3-wire (without neutral)

IEC-specific Data

Current

Base current I_b selectable: 5, 10, 20 or 40 A

Maximum curr	ent I _{max}				
Metrological	selectable:	40, 60,	80, 10	0 or 125	А
Thermal	-			125	А
With aluminiur	n wires			80	А

Short circuit ≤ 10 ms 10.000 A

Measurement Accuracy

ZNGSTUXR	EU LEILUNG
Active energy, to IEC 62053-21	class 1
Reactive energy, to IEC 62053-23	class 2

Interfaces

The Series 2 now supports two independent electrical interfaces.

The meter supports RS232, RS485, RS422, CS and a specially powered RS232 to supply external modems.

Installation support

The monitoring of voltage, current, demand and power factor supports the installation.

Measurement Behaviour

Starting current		
According to IEC	0.4% l _b	
Typical	0.3% l _b	
The startup of the meter is controlled by the starting		
power and not by the starting current.		

Starting power in M-circuit single phase Nominal voltage x starting current

MID-specific Data

Current (for class B)

Reference current Irei selectable 5, 10, 15 or 20 A

Minimum current I_{min} ≤ 0.05 × I_{ref}

Transitional current Itr 01xL...

Maximum current I_{max} With aluminium wires 80 A

Measurement Accuracy to EN 50470-3 ZMG310xR class B

Measurement Behaviour

Starting current Ist \$ 0.004 x Iref.

General

Operating Behaviour

Voltage failure (Power Down)	
Bridging time	0.5 s
Data storage	after another 0.2 s
Switch off (at rated voltage)	after approx, 10 s

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