

DVZE

eHZ

Electronic three-phase meter
Base meter MessSystem-2020



according to German FNN specifications Basic meter Functional characteristics Version 1.4

Data sheet

Base meter DVZE series

eHZ

Type

4-wire direct connection meter for active consumption for plug-in mounting

Functional characteristics and protocols

according to German FNN specification 1.4
Option: DWZE with single-phase operation on L3

Measuring unit parameters

Nominal voltage U_n
Minimum current I_{min}
Reference current I_{ref}
Limit current I_{max}
Actual starting current
Rated frequency
Accuracy class
Measuring mode
Pulse values of the LED

3 x 230 V/400 V; also 230 V
0,25 A

5 A
60 A
<0.004 I_{ref}

50 Hz

Class A, Class B

Single or bidirectional meter for +A (with RLS), -A (with RLS), +A/-A, -A balancing
10.000 imp./kWh

Self-consumption

Voltage path
Current path

< 1 W / 10 VA at U_n
< 0.1 VA at I_{ref}

Temperature range

Operation
Storage and transport

-25 °C to +70 °C
-30 °C to +70 °C

Display

Version
Scope
Data protection
Operation

two lines, character range according to German FNN specifications for basic meters
historical consumption values, only when used as modern measuring device
configurable via PIN code
Display call-up and PIN code entry via optical key

Energy counters

Tariffless registers

Max. 2 tariffs per energy direction (not compatible with EDL tariff control devices)

Additional values

Total power
Active power per phase
Current per phase
Voltages per phase
Mains frequency
Phase angle

Instantaneous values +P/-P

Instantaneous values $+P_{L1}/-P_{L1}$; $+P_{L2}/-P_{L2}$; $+P_{L3}/-P_{L3}$

Instantaneous values I_{L1} ; I_{L2} ; I_{L3}

Instantaneous values U_{L1} ; U_{L2} ; U_{L3}

Instantaneous value

Instantaneous values U-U; I-U

Data interfaces

optical (back side)
optical (front side)

LMN (according to German FNN)

IEC62056-21; 9600Baud; unidirectional (INFO interface according to German FNN)

Housing

Dimensions
Protection class
Protection class
Material

approx. 135 x 90 x 93 mm (H x W x D)

II

IP 51

glass fiber reinforced polycarbonate (flame retardant, recyclable)

Terminals

for plug-in mounting in plug-in technology fastening according to German FNN specification book „Construction of base meter and smart meter gateway“.

Weight

approx. 0.5 kg

