WS76

Singe-phase meter
Modern measuring device
(compliant with German Eichrecht)



according to FNN specifications Basic meter Functional characteristics
Version 1.4

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DZG Metering GmbH

Data sheet

Modern measuring device WS76

Type	2-wire direct-connection meter for active consumption with three-point attachment
Functional characteristics and protocols	Legally compliant with German Eichrecht electricity meter in accordance with §29(3) and §61(3) of the Metering Point Operation Act (MsbG), as well as FNN - Basic Meter Specifications. Functional characteristics Version 1.4. This meter can be upgraded to an intelligent metering system (iMSys) according to §21(1) MsbG by means of a plug-in LMN interface.
Measuring unit parameters	
Nominal voltage U_n	230 V
Minimum current I_{min}	0,25 A
Reference current I_{ref}	5 A, 10 A
Limit current I_{max}	60 A
Actual starting current	<0.004 I_{ref}
Rated frequency	50 Hz
Accuracy class	Class A, Class B
Measurement type	+A (with RLS), +A/-A, -A (with RLS), -A (without RLS)
Pulse values of the LED	10,000 Imp./kWh
Self-consumption	
Voltage path	< 1.5 W / 8 VA at U_n
Current path	< 1 VA with I_{ref}
Temperature range	
Operation	-40 °C to +70 °C
Storage and transport	-45 °C to + 85 °C
Energy meters	
Tariffless registers	1 per energy direction
Tariff registers	Option 2 registers per energy direction, switchable via external terminals or LMN interface
Additional values	
Total power	Instantaneous values +P/-P
Active power per phase	Instantaneous values $+P_{L1}/-P_{L1}$
Current per phase	Instantaneous values I_{L1}
Voltage per phase	Instantaneous values U_{L1}
Mains frequency	Instantaneous value
Display	
Version	two lines, characters according to FNN specifications Basic meter
Scope	historical consumption values, only when used as modern metering device
Data protection	configurable via PIN code
Operation	Display call-up and PIN code entry via key or optical sensor
Data interfaces	
Electrical interface for optional plug-in	LMN (according to FNN), LoRa, RS485 *)
Optical interface	IEC62056-21; 9600Baud; unidirectional (INFO interface according to FNN)
Housing	
Dimensions	with standard terminal cover approx. 190.5 x 129.5 x 68.0 (H x W x D) mm
Protection class	II
Protection class	IP 51
Material	glass-fibre reinforced polycarbonate (flame-retardant, recyclable)
Terminal block according to DIN 62052-11	
Slot for optional plug-in	1 *)
Current/neutral terminals	ø 6.5 mm (slot/cross-slot PZ2 for current terminal) Version as Cage clamp terminal
Terminal cover	Optional version for plug-in terminals or short terminal cover (50 mm)
Weight	approx. 0.6 kg

*) Only one plug-in module per meter possible

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