

devolo SMGW^{plus}



The smart meter gateway with ADDED VALUE.

The devolo SMGW^{plus} is the gateway to new business models with value-added services.



ADDED VALUE. The devolo SMGW^{plus} is automatically ready for value-added services. Submetering, local energy management and the switching of large producers and consumers in the grid are just a few examples of the ADDED VALUE.



Ready for value-added services. The architecture of the devolo SMGW^{plus} lets you remotely install value-added service apps at any time.



Data privacy policy. Access to "regulated" data only via the interfaces defined by the BSI (Federal Office for Information Security in Germany).



Compliant with BSI, FNN and PTB. The devolo SMGW^{plus} meets the BSI specifications for data security and data privacy, the design and functional requirements of the FNN specifications and the calibration requirements of the PTB.



Incremental firmware updates. Preservation of the bandwidth through patches (partial updates). Advantage: smaller data packets, faster updating, higher availability.



Simple installation and initial use. A standalone software tool for service technicians enables quick and convenient work on site at the customer's location.



Bulk production. Faster scalability of production capacity in a BSI-compliant production environment.



Communication. Uses IPv6 or IPv4 for WAN communication. Available with ETH, LTE module and BPL (ITU-T 9960 „G.hn“).

Scenario

Value-added services over secure communications infrastructure

The devolo SMGW^{plus} provides considerably more than required by law. The BSI and FNN-compliant device is ready for value-added services from the moment it leaves the factory. Additional services can be loaded later as an app, which means they can be offered to end customers individually.

The measuring point operator creates the conditions for attractive value-added services through the use of the smart meter gateway and its added-value service capability. This makes it possible to use existing, highly secure communication infrastructure for additional purposes. The measuring point operator can decide independently whether or not to offer value-added services or require external market participants to pay a service fee for provision of the infrastructure.



SMGW^{plus} ETH



SMGW^{plus} LTE

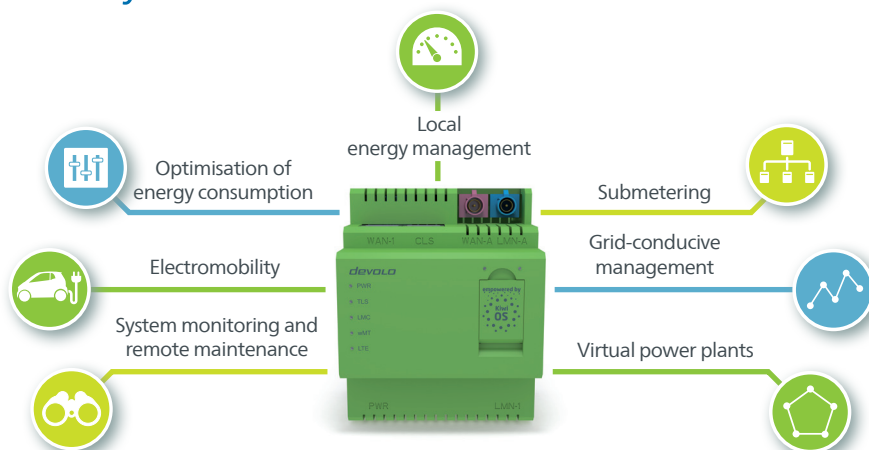


SMGW^{plus} BPL

Technical data

LMN interface (wired)	RS-485 bus line (RJ12 socket), connection of meters
LMN-A interface (wireless)	Wireless M-Bus in accordance with DIN EN 13757 (antenna connection FAKRA plug coding C)
HAN_CON / HAN_SRV interface	Ethernet IEEE 802.3 (RJ45 socket), 100 BaseTx, Auto MDI-X
HAN_CLS interface	Ethernet IEEE 802.3 (RJ45 socket), 100 BaseTx, Auto MDI-X
WAN-1	Ethernet IEEE 802.3 (RJ45 socket), 100 BaseTx, Auto MDI-X
WAN-A	LTE (antenna connection FAKRA plug coding D), fallback to GPRS (optional)
WAN-PLC	Signal coupling via voltage supply (PWR socket); broadband PLC in accordance with ITU-T G.9960 (G.hn) standard
Security module	Permanently integrated and certified in accordance with BSI-CC-PP-0077
LEDs	PWR, TLS, LMC, wMT, dependent on variant: IND/LTE/BPL
Power consumption	ETH 4 W (typ.) (+ 3.5 W for external LMN supply) LTE 5 W (typ.) (+ 3.5 W for external LMN supply) BPL 6 W (typ.) (+ 3.5 W for external LMN supply)
Operating system	Linux SE with Android
Time synchronisation	Real-time clock with 10 year power reserve, NTP over HTTPS/TLS
Voltage supply	230 V AC single-phase L/N, tolerance +10 / -15% (overvoltage category 3)
Temperature (storage/operation)	-25 °C to 70 °C / -25 °C to 55 °C
Dimensions (in mm)	4 HP; 71.6 (width) x 89.8 (height) x 62 (depth)
Ambient conditions	10 - 90% humidity (non-condensing)
Protection class	IP30
Approvals/certifications/ conformity	CE Directive 2014/53/EU (Radio Equipment Directive) Directive 2014/35/EU (Low Voltage Directive) Directive 2014/30/EU (Electromagnetic Compatibility Directive) Directive 2011/65/EU (RoHS Directive) Technical guideline BSI-TR-03109 (Technical guidelines for intelligent measuring systems and their secure operation) Protection Profile BSI-CC-PP-0073 (Protection profile for the gateway of a smart metering system) PTB requirements PTB-A 50.8 (Smart Meter Gateway) Product-relevant FNN specifications

Variety of value-added services



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We'd be happy to serve as your consultant.
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