

Data sheet EpSpot Debit Module DM1100

EpSpot DM1100 is a session based electricity meter suitable for ordinary outlets providing single phase up to 240 VAC 16A. DM1100 contains EpSpot HEXA-sense impedance technology that remotely can detect if a plug is inserted in an outlet that is switched off. Each meter is individually calibrated. Protocol and firmware is automatically upgraded when needed. DM1100 contains integrated switching capabilities switching the power on or off as required.

Plug & Play.

DM1100 will automatically connect through Ethernet over Powerline technology to the PLC bridge that has been connected to an ordinary Ethernet switch. In addition to using 128 bits AES encryption over the power lines, HTTPS is used, so no special router configurations are required.

Flexibility.

DM1100 can co-exist in electrical networks alongside Mode 3 outlets served by the EM series modules. This gives unparalleled flexibility in expansion scenarios and creates cost savings opportunities through adapting the infrastructure to any electricity supply bottlenecks.

Improved safety.

Overload on available capacity is avoided through cloud based power guard where available capacity is shared with other modules.



Powered by HEXA-sense®

Properties	
Voltage	240 VAC
Frequency	50 Hz
Self consumption connected & operating	Typically 1W, momentary 2W
Max current	16A
Active energy measurement error	0,5%
Safety class	2
Pollution degree	2
Communication vehicle	IEC 61851-1
Communication Internet	IEEE 1901 EN 50561-1: 2013/AC1:2015
IEC Over voltage category	III (4000 V)

Properties continued	
Width	1.5 DIN moduler 25mm)
Cable area	0.5-4 mm ²
Torque	0-45-0.5 Nm
IP class	Front IP54, Terminal IP20
Max cable capacitance to outlet	6 nF
Cable release on power failure	Yes, release backup built in.
Fire class	Self extinguishing UL94 V0
Operational temperature	-25 to +40 C
Humidity	75% yearly average, 95% 30 days/year, Non condensing
Altitude	Up to 2000 MSL