

# Data sheet EpSpot Debit Module EM4100

EpSpot EM4100 is a session based electricity meter for single phase mode 3 charging up to three phase 32A. Each meter is individually calibrated. Connection is done with Ethernet over Powerline technology. Protocol and firmware is automatically upgraded when needed. EM4100 contains integrated switching capabilities switching the power on or off as required. Inbuilt PWM and interlock drive circuits makes the EM4100 direct connectable to Mode3 type2 (or type 1) outlets without any additional components. EM4100 will also release any connected charging cable if power outage occurs.

## Plug & Play.

EM 4100 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.

EM4100 can co-exist in electrical networks alongside ordinary outlets served by DM1100 modules. This gives unparalleled flexibility in expansion scenarios and creates cost savings opportunities through adapting the infrastructure to any electricity supply bottlenecks.

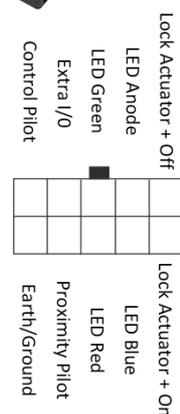
## Improved safety.

Overload on available capacity is avoided through load balancing where available capacity is shared with other modules.



10 pole multi connector  
Fitting plug:  
Wurth Elektronik  
662 010 113 322

(EMX100 seen from outside)



Properties	
Voltage	240 VAC
Frequency	50 Hz
Self consumption connected & operating	Typically 2W, momentary 6W
Max current	3x 32 A
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	6 DIN moduler (105mm)
Cable area	0.52-13.3 mm <sup>2</sup>
Torque	1.8 Nm
IP class	Front IP54, Terminal IP20
Interlock support	Phoenix contact Hella
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