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**Meton Energy**

	Model	Meton Energy
	Description	Intelligent IoT gateway / datalogger
	Unique characteristics	<ul style="list-style-type: none"> <li>• Interconnects on read/write basis, with a vast range of 3rd party devices utilizing standardized protocols (energy meters)</li> <li>• Up to 2 independent fieldbus interfaces (RS485) for simultaneous support of buses with different communication protocols or serial communication characteristics</li> <li>• Count of I/Os can be extended via the use of RS485 extension modules or 3rd party I/O modules</li> <li>• Ceaseless data logging and instant alarming capability on event of interruption of the mains supply thanks to its embedded rechargeable lithium battery (LiPo)</li> </ul>
	CPU	1GHz, dual core ARM, 32bit of Texas Instrument (USA), RAM at 512MB and embedded flash at 4GB (eMMC). Runs on Linux Debian
 <p><b>Meton Energy</b> For illustration purposes only. Ordered products may vary from illustration</p>	<b>Technical Specifications</b>	Communication interfaces 1x RS485 <sup>(3)</sup> 1x Ethernet (base 10/100Mbps) Upon request, available hardware variants for: a) additional RS485 interface, b) com. and bus power optical isolation on the additional RS485 interface c) EU standardized acc. to EN 13757-4, wireless receiver wM-Bus, 868MHz, modes T1 OMS and C1 <sup>(4)</sup> d) 2G cellular WAN modem with embedded SIM card and triple cellular WAN operator failover
		Supported communication protocols Modbus RTU (master), Modbus ASCII (master) and Modbus TCP (master/slave) Upon request, available firmware variants for: a) M-Bus master b) wM-Bus master on modes T1 OMS and C1 <sup>(4)</sup> c) simultaneous operation as Modbus RTU slave (on the additional RS485 port) d) integration of additional standardized or proprietary serial protocols over RS232, RS485, Ethernet e) energy or/and volume integrator over RS485
		Real time clock Embedded RTC module with lithium battery (Li2MnO2) for real time clock support up to 4 years from the mains power supply interruption. Time synchronization over the network (NTP) is also supported
		Power supply Main: U <sub>N</sub> 12 or 24VDC for range 10...32VDC acc. to EN 12830:2018 (typical range 6...36VDC) on the supply terminals, screw type, 2.5mm <sup>2</sup> Aux: 5VDC on female DC jack connector, type A acc. to IEC 60130-10
		Consumption Typical: 2.3W, Max: 6W (charging)
	Backup power supply (UPS)	Embedded rechargeable lithium battery (LiPo) for UPS time up to 4 <sup>(2)</sup> hours from the mains power supply interruption. Sophisticated battery management system featuring battery temperature and fuel monitoring. Ensures ceaseless data logging and instant notifications on power supply changes and battery replacement need



Temperature range	-20...+70oC Upon request, available hardware variants for: -40...+85°C
Ingress protection	IP20 acc. to IEC 60529
Weight	175g
Dimensions	73x100x35 mm
Mounting	Wall or DIN rail mount
Accessories	Included: a) switching power supply <sup>(1)</sup> , 230VAC/5VDC, 2A, with male DC jack connector, type A acc. to IEC 60130-10 b) Patch cable, UTP Cat5e, RJ45, 1m

**Remarks:**

- (1) Alternatively and upon request: with DIN rail switching power supply, 230VAC/5VDC, 15W, compact type (length 1x DIN module), with input/output isolation and converter from connector male DC jack type A acc. to IEC 60130-10 to terminals 2mm<sup>2</sup>
- (2) UPS time has been calculated on the basis of standard hardware variant with no I/O and RS485 terminals unconnected. UPS time is affected by a) type and count of sensors connected on the I/O and RS485 terminals b) hardware variants utilizing additional modules (eg. 2G cellular modem) c) type and count of sensors, transmitters and devices being supplied by the V<sub>s</sub> terminal
- (3) The fieldbus interfaces (RS485), are protected from voltage surges, reverse polarity and electrostatic discharge acc. to IEC 61000-4-2 (ESD), IEC 61000-4-4 (EFT) and IEC 61000-4-5 (Surge)
- (4) Upon request available hardware variants for other frequencies (433MHz, 169MHz) and firmware variants for other wM-Bus modes (S1, S2, T2, N1, N2)