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Meton Connect

	Model	Meton Connect
	Description	Intelligent IoT gateway / datalogger
	Unique characteristics	<ul style="list-style-type: none"> Up to 2 independent fieldbus interfaces (RS485) for simultaneous support of buses with different communication protocols or serial communication characteristics Ceaseless data logging and instant alarming capability on event of interruption of the mains supply thanks to its embedded rechargeable lithium battery (LiPo) Universal inputs (UI) for processing of analog (AI) and digital signals (DI) High resolution in analogue inputs readings thanks to its 12 bit A/D converter
	CPU	1GHz, dual core ARM, 32bit of Texas Instrument (USA), RAM at 512MB and embedded flash at 4GB (eMMC). Runs on Linux Debian
 <p>Technical Specifications</p>	Integrated I/O	<p>8x universal inputs (UI) as</p> <ul style="list-style-type: none"> Analogue inputs (AI) for temperature sensors NTC/PTC or digital inputs (DI) for dry contacts Analogue inputs (AI) for temperature transmitters MB1-TS(L/S) or digital inputs (DI) for dry contacts* Analogue inputs (AI) for generic sensors 0/4...20mA** or digital inputs (DI) for dry contacts* Analogue inputs (AI) for generic sensors 0/2...10V* or digital inputs (DI) for dry contacts <p>* Needs external resistor mounted in series ** Needs external power supply (12 or 24VDC depending on the sensor's requirements)</p> <p>All UI are protected from short circuits and electrostatic discharge up to 16kV (ESD rating: class 3B)</p> <p>Upon request: a) 2x digital outputs (DO) for relay actuation (occupies 2x UI) b) 1-wire interface (occupies 2x UI) c) customized I/O configuration (as combination of NTC / PTC / MB1-TS(L/S) / 4...20mA / 0...10V / DI / DO / 1-wire)</p>
	Measuring range of AI	<p>-50...+110°C with resolution < 0.2°C for sensors NTC, 10k -50...+60°C with resolution < 0.08°C for sensors MB1-TS(L/S) -55...+125°C with resolution < 0.06°C for sensors 1-wire 0...21mA with resolution < 0.03mA for sensors 4...20mA 0...11V with resolution < 0.03V for sensors 0...10V</p>
	Communication interfaces	<p>1x RS485 1x Ethernet (base 10/100Mbps)</p> <p>Upon request: a) additional RS485 interface, b) with RS232 interface (occupies 2x UI)</p> <p>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)</p>
	Supported communication protocols	<p>Modbus RTU (master), Modbus ASCII (master) και Modbus TCP (master/slave)</p> <p>Upon request: a) M-Bus b) wM-Bus c) simultaneous operation</p>



	<i>as Modbus RTU slave</i>
Real time clock	<i>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</i>
Power supply	<i>5VDC on DC jack connector, type A acc. to IEC 60130-10</i>
Consumption	<i>Typical: 2.3W, Max: 6W</i>
Backup power supply (UPS)	<i>Embedded rechargeable lithium battery (LiPo) for UPS time up to 4 hours from the mains power supply interruption. Ensures ceaseless data logging for the embedded I/O types NTC/PTC/DI/MB1-TS(L/S) and instant notifications on power supply changes</i>
Temperature range	<i>-20...+70oC Upon request: -40...+85°C</i>
Ingress protection	<i>IP40 acc. To IEC 60529</i>
Weight	<i>175g</i>
Dimensions	<i>73x100x35 mm</i>
Mounting	<i>Desktop mount Upon request: with adapter for mounting on the DIN rail</i>
Accessories	<i>Included: a) switching power supply*, 230VAC / 5VDC, 2A, b) Patch cable, UTP Cat5e, RJ45, 2m *Alternatively and upon request: with DIN rail switching power supply, compact type (length 1x DIN module), with input/output isolation</i>