

# MMU 3 - Modular measuring technology for DIN rail

Download data sheet



Measurement inputs:  
3x voltage

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Voltage measurement:  
up to 620 V



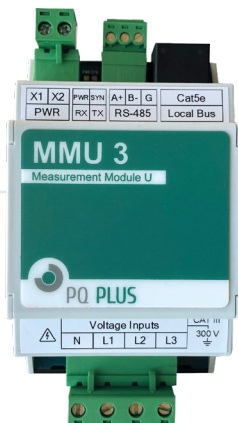
Measurement category:  
CAT III / 300 V

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Scanning: 6.4 kHz

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Sampling rate of  
measured values: up to 200 ms



Harmonics:  
up to the 25<sup>th</sup> harmonic. harmonic



Accuracy of voltage measurement:  
Class 0.05

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Accuracy of active power / real energy:  
Class 1 / 1

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Accuracy of reactive power / real energy:  
Class 2 / 2



Communication interfaces: RS485, local bus

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Communication protocols:  
Modbus

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Connection of slave devices:  
Connection of MMI 12 modules

## Areas of use

- Local network station

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- Industry

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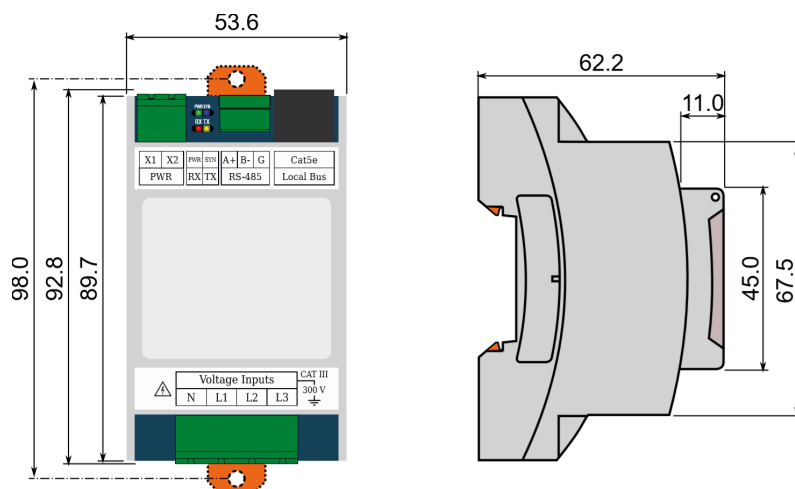
- Data centre

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- Hospital

Supply voltage		Measurement voltage		Measuring inputs	Functions			Communication					Type	Item number
24 V DC	5 - 1470 V LL	8 - 620 V LL	Quantity	Digital in- / outputs	Memory size in MB	Clock	Local Bus	RS485	Ethernet	Gateway Modbus master	USB			
•	-	•	3U	-	-	•	•	•	-	-	-	MMU 3	10.46.9001	

## Dimension drawings



## Technical specification - MMU 3

MMU 3					
Communication	Interfaces	RS485, local bus			
	Communication protocols	Modbus RTU			
Data logger	Storage capacity and distribution	none			
	Measured value storage	none			
Electrical connection	Supply voltage	24 V version: 10 ... 29 V DC			
	Power consumption	1.5 W			
	Overtoltage category	Category III			
Accuracy classes	Voltage:	Cl. 0.05	Frequency:	Cl. 0.02	
	Active power:	Cl. 1	Reactive power:	Cl. 2	Apparent power: Cl. 1
	Harmonics:	Cl. 1	Power factor:	Cl. 0.5	cos phi: Cl. 0.5
	Real energy:	Cl. 1	Reactive energy:	Cl. 2	Apparent energy: Cl. 0.5
Measurement inputs	Voltage	U L-N: 8 ... 350 V AC U L-L: 14 ... 610 V AC			
	Overload voltage	Permanent U L-N: 1355 V AC / peak overload for max. 1 sec. U L-N: 2140 V AC			
	Frequency	40 ... 70 Hz (DC-500 mode: 0 ... 500 Hz)			
	Input impedance voltage	6.12 MOhm			
	Input load voltage	< 0.05 VA			
	Harmonics per order	1. ... 25. of the voltage			
	Measuring method	IEC 61000-4-30			
Mechanical properties	Operating temperature range	-25 ... 60 °C at < 95 % relative humidity			
	Temperature range bearing	-40 ... 80 °C at < 95 % relative humidity			
	Protection type front / total	IP 40 / IP 20			
	Dimensions WxHxD	54 x 94 x 61 mm			
	Weight	0.11 kg			
Internal real-time clock	Accuracy	+/- 2 s per day at 0 ... 40 °C			
	Possible synchronisation	System frequency			