

Selection guide

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How do I select the best meter for my application?

There are many versions of EQ meters in order to meet your requests. The EQ program comprises meters with different functionalities such as tariffs, communication interfaces or advanced clock functions. Spend a little time to evaluate the functions and imagine how they could add extra value to your metering. For example, the input counter (from silver level) on an EQ meter can be used to count products produced by a machine and be read out together with the energy consumption of the same machine. In one easy go you can allocate energy to any produced product from one source. Another useful function is previous values (from gold level). If you charge users in intervals the meter can secure the data even in the event of a broken communication link. You can collect the correct interval data later and also make it visible for your counterpart immediately on the meters display in case of any discussions.

Make the meter an asset.

Take the step from passive meter reading to an active user of the data you can retrieve. The meter can be an important asset for you in order to avoid costs like penalties or extra charge for reactive energy (from bronze level). Keep track of your maximum demand and reduce them to avoid charges. EQ meters can tell you the value of the maximum demand and also when it occurred. Harmonics is the source of many problems for all sorts of equipment connected to the low voltage network. Use an EQ meter (platinum level) to measure the THD and isolate the source before you have to take the cost and consequences of poor power quality

Function	Single phase				Three phase				
	C11	B21	A41	A42	C13	B23	B24	A43	A44
Direct connected	1	1 2 3	1 2 3 4 5		1	1 2 3		1 2 3 4 5	
Transformer connected				1 2 3 4 5			1 2 3		1 2 3 4 5
2 element metering						1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5
3 element metering					1	1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5
Accuracy 1%, Class 1, Class B	1	1 2 3	1 2 3 4 5	1 2 3 4	1	1 2 3	1 2	1 2 3 4 5	1 2 3
Accuracy 0,5%, Class 0,5 S, Class C				5			3		3 4 5
Active energy	1	1 2 3	1 2 3 4 5	1 2 3 4 5	1	1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5
Reactive energy		2 3	2 3 4 5	2 3 4 5		2 3	2 3	2 3 4 5	2 3 4 5
Apparent energy		2 3	2 3 4 5	2 3 4 5		2 3	2 3	2 3 4 5	2 3 4 5
Import/Export energy		2 3	2 3 4 5	2 3 4 5		2 3	2 3	2 3 4 5	2 3 4 5
Tariff registers, 1-4		3	3 4 5	3 4 5		3	3	3 4 5	3 4 5
Instrument values	1	1 2 3	1 2 3 4 5	1 2 3 4 5	1	1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5
Alarm function	1	1 2 3	1 2 3 4 5	1 2 3 4 5	1	1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5
Harmonics, THD and no 2-16				5					5
Previous values - day, week, month				4 5				4 5	4 5
Max and min demand				4 5				4 5	4 5
Load profiles - 8 channels				5				5	5
Pulse output	1	1 2	1 2	1 2	1	1 2	1 2	1 2	1 2
I/O board - 2 in, 2 out		3	3 4	3 4		3	3	3 4	3 4
Configurable I/O - 4 I/O channels				5				5	5
Tariffs controlled by input		3	3 4 5	3 4 5		3	3	3 4 5	3 4 5
Tariffs controlled by communication		3	3 4 5	3 4 5		3	3	3 4 5	3 4 5
Tariffs controlled by clock			4 5	4 5				4 5	4 5
MID approved, verified	optional	1 2 3	1 2 3 4 5	1 2 3 4 5	optional	1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5
IEC approved	1	1 2 3	1 2 3 4 5	1 2 3 4 5	1	1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5
Communication - Infrared (M-Bus)		1 2 3	1 2 3 4 5	1 2 3 4 5		1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5
Communication - M-Bus		optional	optional	optional		optional	optional	optional	optional
Communication - RS-485 Modbus		optional	optional	optional		optional	optional	optional	optional
Communication - RS-485 EQ bus		optional	optional	optional		optional	optional	optional	optional

1 = Steel

2 = Bronze

3 = Silver

4 = Gold

5 = Platinum

| = Not available

Optional = Available on some order codes

Connection of EQ meters

There are both one phase and three phase meters in the program. When the current exceeds the maximum current for a direct connected meter, a meter can be used from A or B series with current transformers (CT's). If the voltage is outside the specification of the meter you can use an A series meter with voltage transformers (VT's). Please note that three phase meters in A and B series can be configured to be used in three or four wire applications.

C, B and A series

	Single phase				Three phase				
	C11	B21	A41	A42	C13	B23	B24	A43	A44
Connection	Direct	Direct	Direct	CTVT	Direct	Direct	CT	Direct	CTVT
Max Amp	40A	65A	80A	6A ^{*)}	40A	65A	6A ^{*)}	80A	6A ^{*)}
Communication	-	IR, M-Bus, RS-485	IR, M-Bus, RS-485	IR, M-Bus, RS-485	-	IR, M-Bus, RS-485	IR, M-Bus, RS-485	IR, M-Bus, RS-485	IR, M-Bus, RS-485
Functionality	1	1 2 3	1 2 3 4 5	1 2 3 4 5	1	1 2 3	1 2 3	1 2 3 4 5	1 2 3 4 5

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^{*)}6A is the secondary current of a connected current transformer used in cases with currents exceeding the max current for direct connected meters.

