

Selection guide

Active energy meters and pulse concentrators

COUNTIS E

Which type
of network?

Which load
current?

Network - Input current	Single-phase Direct up to 40 A			Single-phase Direct up to 80 A				Three-phase Direct up to 80 A	
									
Active energy meters: COUNTIS E	<i>E00/E02</i> p. 344	<i>E03/E04</i> p. 344	<i>E05/E06</i> p. 344	<i>E11/E12</i> p. 346	<i>E13/E14</i> p. 346	<i>E15/E16</i> p. 346	<i>E17/E18</i> p. 346	<i>E21/E22</i> p. 348	<i>E23/E24</i> p. 348

Main specifications

MID: EN 50470 module B + D certification	• (E02)	• (E04)	• (E06)	• (E12)	• (E14)	• (E16)	• (E18)	• (E22)	• (E24)
RS485 Modbus		•			•				•
M-Bus			•			•			
Ethernet Modbus TCP/RTU							•		
Width	1 module	1 module	1 module	2 modules	2 modules	2 modules	2 modules	4 modules	4 modules
Input voltage	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC	230 ... 400 VAC	230 ... 400 VAC

Functions



Total/partial energy kWh	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•
Active power / Reactive power	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•
Dual tariff for kWh		•	•	•	•	•	•	•	•
Total/partial energy kvarh	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•
kVA		via COM	via COM		•	•	•	•	•
Load curve									
Measurement (I, V, P, Q, S, F and PF)	•	•	•	•	•	•	•	•	•
CT connection indication									
Bidirectional (energy consumption and production)	•	•	•	•	•	•	•	•	•
Integrated web server							•		
Compatibility with Webview		•			•		•		•

Accuracy




Active energy (IEC 62053-21)	class 1	class 1	class 1	class 1	class 1	class 1	class 1	class 1	class 1
Reactive energy (according to IEC 62053-23)	class 2	class 2	class 2	class 2	class 2	class 2	class 2	class 2	class 2
Active energy (EN 50470)	class B (E02)	class B (E04)	class B (E06)	class B (E12)	class B (E14)	class B (E16)	class B (E18)	class B (E22)	class B (E24)

Characteristics

Metrological LED	•	•	•	•	•	•	•	•	•
Pulse output	100 Wh	100 Wh	100 Wh	100 Wh	100 Wh	100 Wh		100 Wh	100 Wh
Sealing cover (MID version only)	• (E02)	• (E04)	• (E06)	• (E12)	• (E14)	• (E16)	• (E18)	• (E22)	• (E24)
Phase/neutral inversion protection									

		
Pulse concentrator	COUNTIS ECi2 p. 356	COUNTIS ECi3 p. 356
Case	4 modules	4 modules
Logical inputs	7	7
Analogue inputs		2
ON/OFF output (alarm)	1	1
Partial, total, daily, weekly or monthly kWh or other types of data (liters, m³...)	•	•
Load curve from 8 to 30 minutes	•	•
RS485 Modbus	•	•



Three-phase Direct up to 80 A		Three-phase Direct up to 100 A			Three-phase CT 1/5 A				Three-phase CT/5 A	
										
<i>E25/E26</i> <i>p. 348</i>	<i>E27/E28</i> <i>p. 348</i>	<i>E30/E31/E32</i> <i>p. 350</i>	<i>E33/E34</i> <i>p. 350</i>	<i>E35/E36</i> <i>p. 350</i>	<i>E41/E42</i> <i>p. 352</i>	<i>E43/E44</i> <i>p. 352</i>	<i>E45/E46</i> <i>p. 352</i>	<i>E47/E48</i> <i>p. 352</i>	<i>E50</i> <i>p. 354</i>	<i>E53</i> <i>p. 354</i>
• (E26)	• (E28)	• (E32)	• (E34)	• (E36)	• (E42)	• (E44)	• (E46)	• (E48)		
			•			•				•
•				•			•			
	•							•		
4 modules	4 modules	7 modules	7 modules	7 modules	4 modules	4 modules	4 modules	4 modules	96x96	96x96
230 ... 400 VAC	230 ... 400 VAC	230 ... 400 VAC	230 ... 400 VAC	230 ... 400 VAC	230 ... 400 VAC	230 ... 400 VAC	230 ... 400 VAC	230 ... 400 VAC	86 ... 520 VAC	86 ... 520 VAC
•/•	•/•	•/• (E31)	•/via COM (E34)	•/via COM (E36)	•/•	•/•	•/•	•/•	•/•	•/•
•/•	•/•	•/-	•/via COM	•/via COM	•/•	•/•	•/•	•/•	•/•	•/•
•	•	• (E31/E32)	up to 4 via com	up to 4 via com	•	up to 4 via com	up to 4 via com	up to 4 via com	•	•
•/•	•/•		via COM	via COM	•/•	•/•	•/•	•/•	•	•
•	•		via COM	via COM	•	•	•	•	•	•
			via COM	via COM		via COM	via COM	via COM		
•	•		via COM	via COM	•	•	•	•	•	•
					•	•	•	•	•	•
•	•		• (E33)	• (E35)	•	•	•	•		
	•							•		
	•		•			•		•		•
class 1	class 1	class 1	class 1	class 1	class 1	class 1	class 1	class 1	class 1	class 1
class 2	class 2				class 2	class 2	class 2	class 2	class 2	class 2
class B (E26)	class B (E28)	class B (E32)	class B (E34)	class B (E36)	class C (E42)	class C (E44)	class C (E46)	class C (E48)		
•	•	•	•	•	•	•	•	•		
100 Wh	100 Wh				configurable	configurable	configurable	configurable		
• (E26)	• (E28)	• (E32)	• (E34)	• (E36)	• (E42)	• (E44)	• (E46)	• (E48)		
		•	•	•				•	•	•