



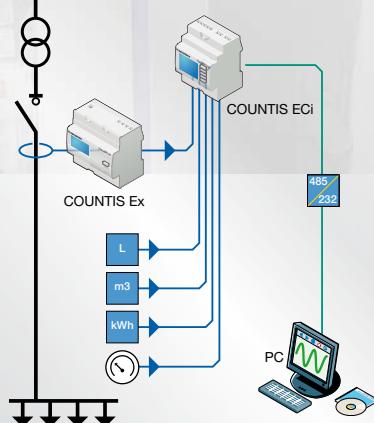
Pulse concentrator

Function

The **COUNTIS ECix** is a multi-fluids pulse concentrator communicating via an RS485 link using JBUS/MODBUS®.

Through 7 insulated on/off inputs and 2 analogue inputs (COUNTIS ECi3 version), it counts the number of pulses from different energy meters (water, air, gas, electricity...) and transmits this information to a PC equipped with ENERGY REPORTING software or to a PLC.

Applications



In the knowledge that electricity is not the only energy consumption source, COUNTIS allows centralising of other units such as water, air or gas.

ENERGY REPORTING software, via the **COUNTIS ECix** concentrator and its RS485 link JBUS/MODBUS® protocol, allows centralising all these consumptions whilst guaranteeing an optimal accuracy and ease of exploitation (Windows environment).

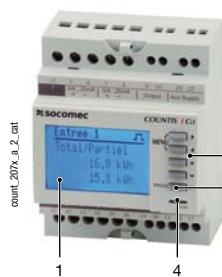
The **COUNTIS ECix** provides:

- Easy to use: a wide LCD screen with 4 lines and 5 direct access keys.
- 7 partial, overall, daily, weekly or monthly totalisers to account for the kWh or other type of quantities (liters, cubic meters, Euros...).
- Status of the 7 inputs (to centralize dry contacts information from the installation).
- 2 analogue inputs 0/4 ... 20mA to centralize the analog sensor value (flow, pressure...).
- The 7 logical inputs and the 2 analogue inputs can reconstitute an average value as required over a period of 8, 10, 15, 20 or 30 minutes. Stored in 10-minute segments for 170 days.
- A configurable logical output (configurable alarm, logical equation...).

Conformity to standards

- IEC 61010-1
- IEC 61000-4-2
- IEC 61000-4-3
- IEC 61000-4-4
- IEC 61000-4-5
- IEC 61000-4-6
- IEC 61000-4-8
- IEC 61000-4-11
- IEC 60068-2-6
- IEC 60068-2-11
- IEC 60068-2-30

Front panel



1. Backlit LCD screen.
2. Navigation keys.
3. Validation pushbutton in programming mode.
4. Communication status indicator (COM).

Case

	<table border="1"> <tbody> <tr><td>Type</td><td>Modular</td></tr> <tr><td>Number of modules</td><td>4</td></tr> <tr><td>Dimensions W x H x D</td><td>73 x 90 x 67 mm</td></tr> <tr><td>Case protection index</td><td>IP20</td></tr> <tr><td>Front protection rating</td><td>IP51</td></tr> <tr><td>Display type</td><td>LCD</td></tr> <tr><td>Terminal blocks type</td><td>Fixed</td></tr> <tr><td>Rigid cable connection section</td><td>1 ... 10 mm²</td></tr> <tr><td>Flexible cable connection section</td><td>0.5 ... 6 mm²</td></tr> <tr><td>Weight</td><td>215 g</td></tr> </tbody> </table>	Type	Modular	Number of modules	4	Dimensions W x H x D	73 x 90 x 67 mm	Case protection index	IP20	Front protection rating	IP51	Display type	LCD	Terminal blocks type	Fixed	Rigid cable connection section	1 ... 10 mm ²	Flexible cable connection section	0.5 ... 6 mm ²	Weight	215 g
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Characteristics

Auxiliary power supply

Self supplied	no
Alternating voltage	110 / 400 VAC
Direct voltage	120 / 300 VDC
Tolerance	± 10 %
Frequency	45 / 65 Hz
Consumption	5 VA
Insulation voltage	3.5 kV

Communication

Link	RS-485
Type	2 ... 3 half duplex wires
Protocol	JBUS/MODBUS® in RTU mode
JBUS/MODBUS® speed	9600 ... 38400 bauds

On/off inputs

Number	7
Control voltage (integrated)	10 ... 30 VDC
Minimal signal width	10 ms
Maximum signal width	2 s
Minimum length between 2 impulses	30 ms
Edge triggering	rising

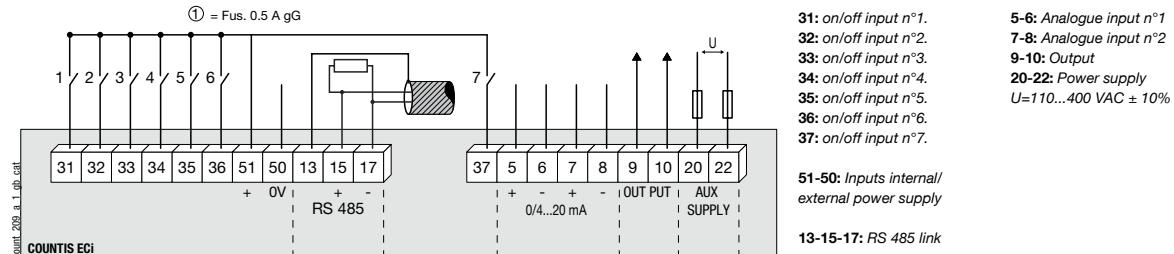
Analog inputs

Number	2
Current	25 mA
Accuracy	0.5 %
Response time	500 ms
Input resistance	200 Ω
Absorbed power	0.1 VA

Operating conditions

Operating temperature	-10 ... +55 °C
Storage temperature	-20 ... +70 °C
Relative humidity	95 %

Terminals and connections



References

Auxiliary power supply U_s

	COUNTIS ECi2 Reference	COUNTIS ECi3 Reference
230 / 400 VAC	4853 0000	
230 / 400 VAC + 2 analogue inputs		4853 0001

Description of accessories

	Reference	Reference
Panel mounting kit	192J 8015	192J 8015