



Energy Meter

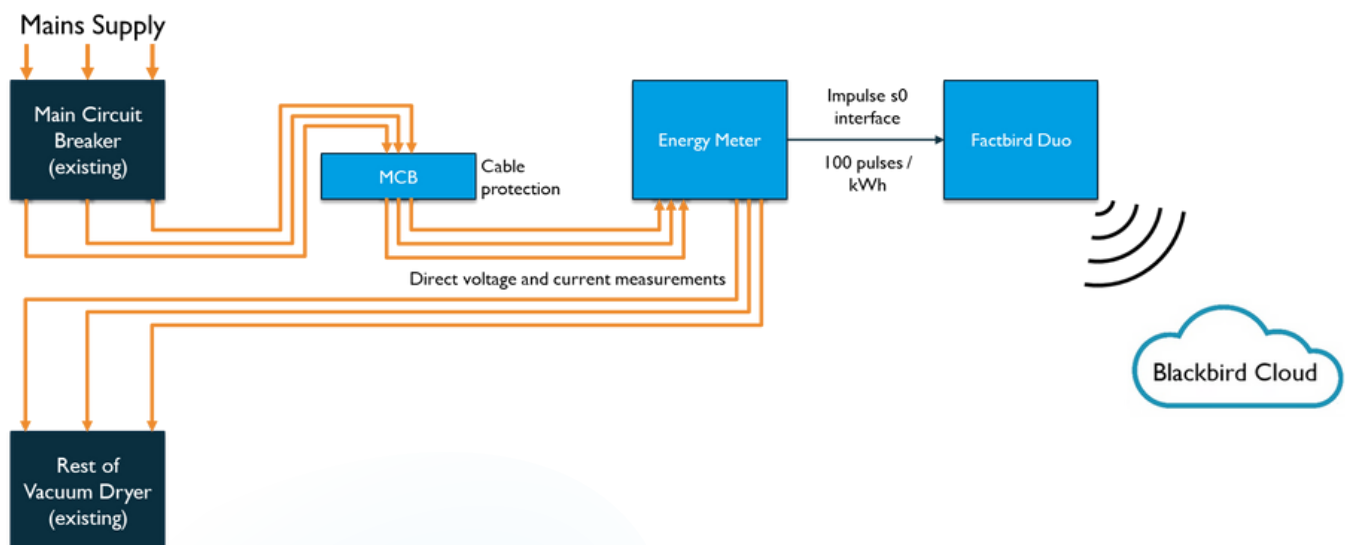
Machinery current consumption measuring

Direct monitoring is used for measuring the current consumption of machinery that consumes a maximum of 63A (3-phase 400V).

The installation of the measuring component is done by rerouting the main supply through a miniature circuit breaker (MCB) and the energy meter so that it is installed in series with the machine, and the meter measures directly the current and voltage levels.

Direct energy monitoring kit:

- 1 x 3-phase MCB 32A. We'll provide Siemens **5SL6332-7**
- 1 x 3-phase energy meter. We'll provide Siemens **7KT1671**
- 1 x signal cable (energy meter to data collector), M8 connector cable





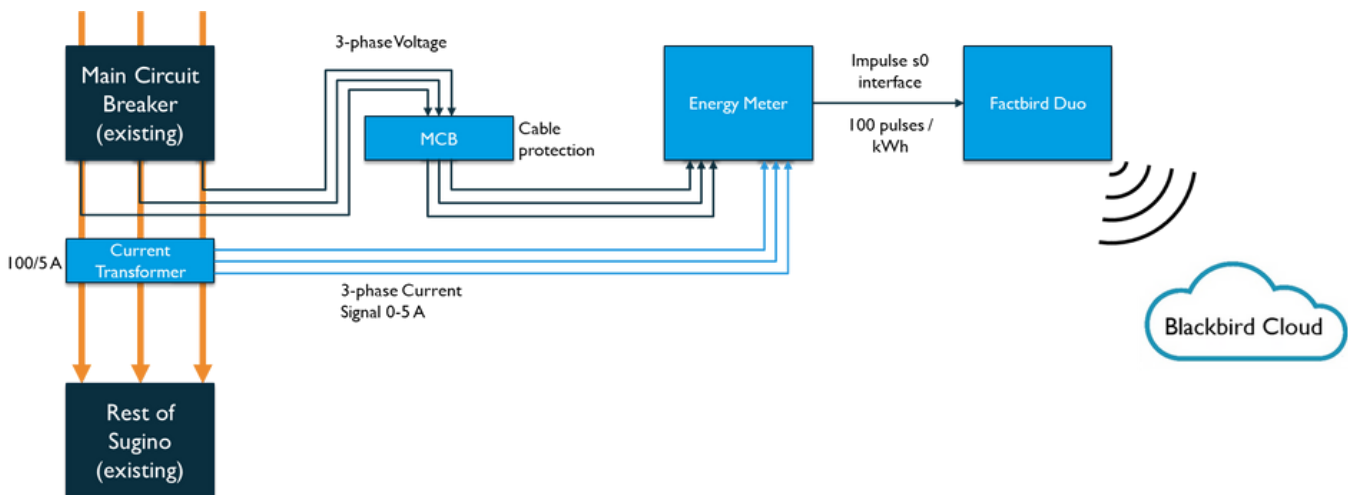
In the case of **Transformer monitoring**, the power lines are monitored externally. The current is measured via the current transformer and the voltage is measured via separate wires. The maximum current level for 3-phase 400V installations is determined by the specification of the selected CT.

Max current: Defined by CT (X/5A)

This configuration is used when current levels are higher than 63 A.

Transformer energy monitoring kit:

- 1 x 3-phase MCB 32A | Siemens **5SL6332-7**
- 1 x 3-phase energy meter | Siemens **7KT1671**
- 1 x 3-phase current transformer | Siemens **7KT1201**
- 1 x signal cable (energy meter to data collector), M8 connector cable





Environmental conditions	
Installation	For indoor use only
Operating temperature / Storage temperature	-25 ... +55 °C / -25 ... + 70 °C
Relative humidity (IEC EN 60068-2-78)	< 80% non-condensing
Maximum degree of pollution	2
Overvoltage category	III
Altitude	≤ 2000 m
Climatic sequence	Z/ABDM (IEC/EN 60068-2-61)
Shock resistance	10g (IEC/EN 60068-2-27)
Vibration resistance	0.7 g (IEC/EN 60068-2-6)
Mechanical environment	Class M1
Electromagnetic environment	Class E2

Insulation voltage	
Rated insulation voltage L-N	250 V ~
Rated impulse withstand voltage Uimp	6 kV
AC withstand voltage	4 kV



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*The current transformer device is not included in the campaign.

