DATASHEET

Factbird® Energy Monitoring - Clip-on Current Transducer

TRACK AND REDUCE THE EQUIPMENT ENERGY CONSUMPTION 24/7

Reduce equipment energy consumption without compromising on output and performance.

Conveniently track and monitor the machinery power consumption to shed light on usage while on standby or at different speed levels.

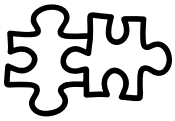
How it works

Factbird's energy monitoring solution, which utilizes off-the-shelf current transducers, offers an easy Plug-and-Play solution. The solution allows for easy measurement of current consumption in both single-phase and three-phase systems, providing estimates of total power consumption.

By connecting current transducers of clip-on types to Factbird® devices, the data is securely transmitted to the Factbird® cloud server. The current data can be converted to energy consumption measure in kilowatts (kW), analyzed and visualized together with other relevant data such as production output.

Factbird® offers four types of standard transducers depending on the maximum current draw of the machines. Our standard current transducers measure up to 50A, 150A, 250A, and 500A. Other current transducers can be used for specific use cases.

Key features



Non-intrusive solution

An end-to-end solution that is retrofitted to seamlessly integrate with existing infrastructure.

Effortless Installation

Installation can be done in under 1 hour, in many cases while production continues uninterrupted.

Machine level analysis

Energy consumption data can be correlated and analyzed at the machine level alongside production performance data.

Checklist for installation

- Factbird® devices
- Power supply unit of Factbird® devices
- Clip-on current transducer
- Converter
- Cable with wire-ends and an M12 connector
- Cable with M12 and M8 connectors

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Product Specifications

LEM AT50 B420L (Current transducer)	
Dimensions	44.5 × 36.5 × 67 mm / 1.8 × 1.4 × 2.6 in
Primary aperture	⌀16 mm / 0.6 in
Weight	90 g / 3.2 oz
Operating temperature	-20°C to 60°C / -4°F to 140°F
Measuring range	0-50 A
Precision	±1.5% of full-scale

LEM AT150 B420L (Current transducer)	
Dimensions	44.5 × 36.5 × 67 mm / 1.8 × 1.4 × 2.6 in
Primary aperture	⌀16 mm / 0.6 in
Weight	90 g / 3.2 oz
Operating temperature	-20°C to 60°C / -4°F to 140°F
Measuring range	0-150 A
Precision	±1.5% of full-scale

J&D CT Clamp 0-250A (Current transducer)	
Dimensions	45 × 46.6 × 75.5 mm / 1.77 × 1.83 × 2.97 in
Primary aperture	⌀24 mm / 0.9 in
Weight	195 g / 6.9 oz
Operating temperature	-20°C to 50°C / -4°F to 122°F
Measuring range	0-250 A
Precision	±2% of full-scale

J&D CT Clamp 0-500A (Current transducer)	
Dimensions	57.1 × 52.8 × 91.4 mm / 2.3 × 2.1 × 3.6 in
Primary aperture	⌀36 mm / 1.4 in
Weight	308 g / 10.9 oz
Operating temperature	-20°C to 50°C / -4°F to 122°F
Measuring range	0-500 A
Precision	±2% of full-scale

ifm DP2200 (Converter)	
Dimensions	4563 × 30 × 24 mm / 2.5 × 1.2 × 0.9 in
Weight	108 g / 3.8 oz
Operating temperature	-25°C to 60°C / -13°F to 140°F
Measuring range	4-20 mA
Precision	±0.75% of full-scale

Please refer to each manufacturer's website for more information.

Please refer to the Factbird® energy monitoring solution that utilizes an energy meter for applications requiring higher precision.

End of life
When you wish to dispose the sensor cable, please return it to Factbird ApS for recycling or recycle local according to local laws where the end-of-life takes place.

Limitations of liability
Factbird ApS shall not be responsible for any direct or indirect damages, commercial losses, loss of profit in any way connected with the Factbird devices.

Warranty
Factbird ApS's warranty is that the product is free from defects in materials and workmanship for a period of one year from the date of sale by Factbird ApS.