

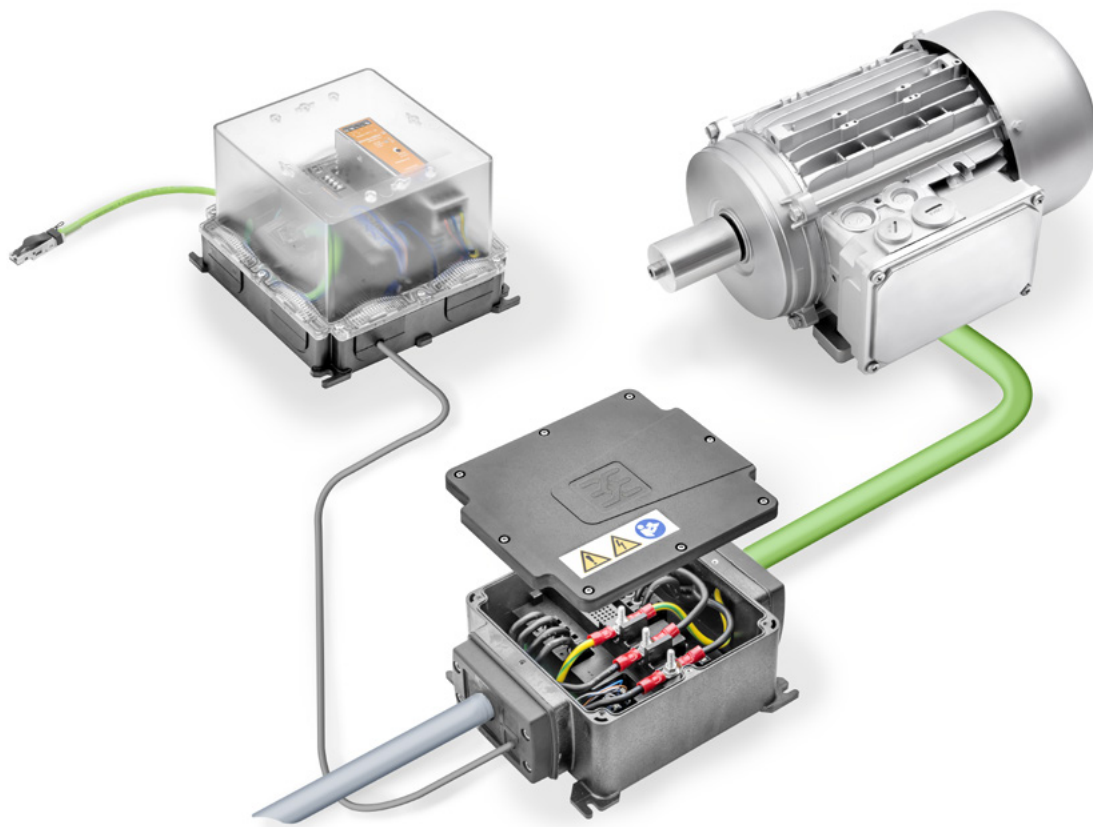
Electrical motor data acquisition and transmission

u-sense energy drives - IIoT drive monitoring



Connecting simple asynchronous motors with the IIoT

u-sense energy drives is an industrial solution for providing electrical data. It can be easily integrated into existing systems and take into account all connection variants of electric motors. Due to a smart pre-processing unit, u-sense provides all data required for monitoring or predictive maintenance. In combination with analytics software errors can be identified automatically to recommend appropriate actions.



The benefits of the IIoT infrastructure



Easy Industrial IoT integration

U-connect makes it easy to integrate electromechanical motors into the Industrial IoT.



Increased efficiency through status recording

Plannable service activities and display of the current electrical measured values of the motor.



Predictive maintenance

Minimizing the risk of machine downtime and increasing efficiency and availability.

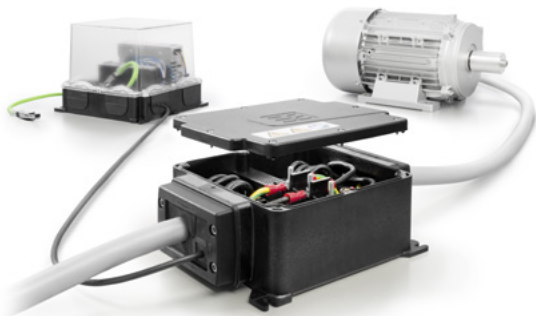


On premise monitoring

Maintain over your data and simply have their security under control.

Easy to install u-sense energy drives

Easy integration into the existing connection line of the motor



Easy to install

- 🏆 The particularly simple integration into existing infrastructures ensure short downtimes
- 🏆 The IP65-protected housing enables installation close to the motor
- 🏆 All communication lines can be quickly wired due to PUSH IN connection technology

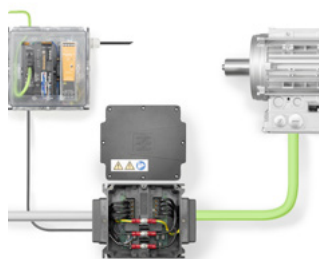
Comprehensive motor monitoring

The integrated pre-processing unit provides all important data on the connected motor, such as status., switching cycles, starting behaviour, rated current and voltage, active and reactive power, deviation between phases, and much more.

Reliable data transmission

The IIoT integration is realised via Modbus. Visualisation and data conversion to OPC UA are provided by Weidmüller u-control. So the measured values can be displayed and used via PC, smartphone, or tablet regardless of location.

The quickly installable retrofit solution



Retrofitting - Easy to connect

Integration into existing power lines, short downtime.



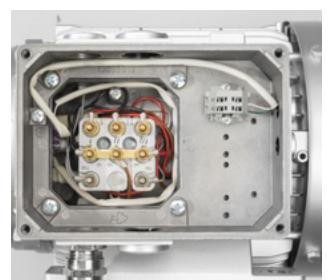
Industrial robustness - Ready for hard environments

Integration into industrial environments thanks to protection class IP 65, vibration proof modern PUSH IN connection technology and robust stud technology.



Data preprocessing - Data to information

Reduce data volume to cloud systems, thanks to preprocessing on sensor device. Communication via Modbus RTU.



Additional Functionalities

Flexible integration into existing drive infrastructure with star-delta switch connection, hybrid cable connection. Additional information from integrated analog and digital inputs for external sensors.

The Total Energy Monitoring portfolio offers products that meet your needs

The Total Energy Monitoring portfolio offers products that meet your needs



Energy meters

The energy measuring devices in the Energy Meters series form the core of the measuring unit. They record and process all the relevant energy data.

Energy analysers

With just one device, you can measure all the quality parameters of the electrical power supply network, create quality analyses and gain a clear visual overview.

Energy & data logger

Simplify and accelerate the collection and transmission of consumption and process data for analysis.

u-remote energy measurement module

Measure and calculate reactive, apparent and active power, energy consumption, phase angles and many other electrical parameters.



Order no.	Type
2739330000	IE-UD50KW-MODBUS-W

u-sense energy drives is a retrofit-capable solution to integrate engine monitoring directly into IIoT in the shortest possible time. Visit our virtual electronica offer to find out more about how downtimes can be reduced and maintenance personnel can be deployed more effectively.

www.weidmueller.com/u-sense-energy

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