

Safe, energy efficient home and building installations

From improved installations in your buildings
to your **safety** and **energy savings**.



Think energy

 **Iskra**[®]
Iskra MIS

From your problems...

Why are you exposing yourself to dangerous installations?



High risk of electric shock

Are you aware of how **dangerous unprotected installations** can be?

Without proper overvoltage protection, atmospheric discharges can harm a complete building or even settlements. Unpredictable are also fault currents at direct contact with conductive parts of equipment, overloads and short circuits. Old and low grade quality installations **should be renewed** and equipped with all necessary **protection elements to prevent** heating of conductors or appliances, eliminate possibility of fire and electric shock.



Ineffective switching

Do you know that also **big loads** can be **easily controlled**?

Lack of space in installation cabinets usually does not allow the application of a big switching apparatus. Needs for switching tariffs independently are more and more common. Lots of loads also need proper signalisation via reliable auxiliary contacts.

No consumption control

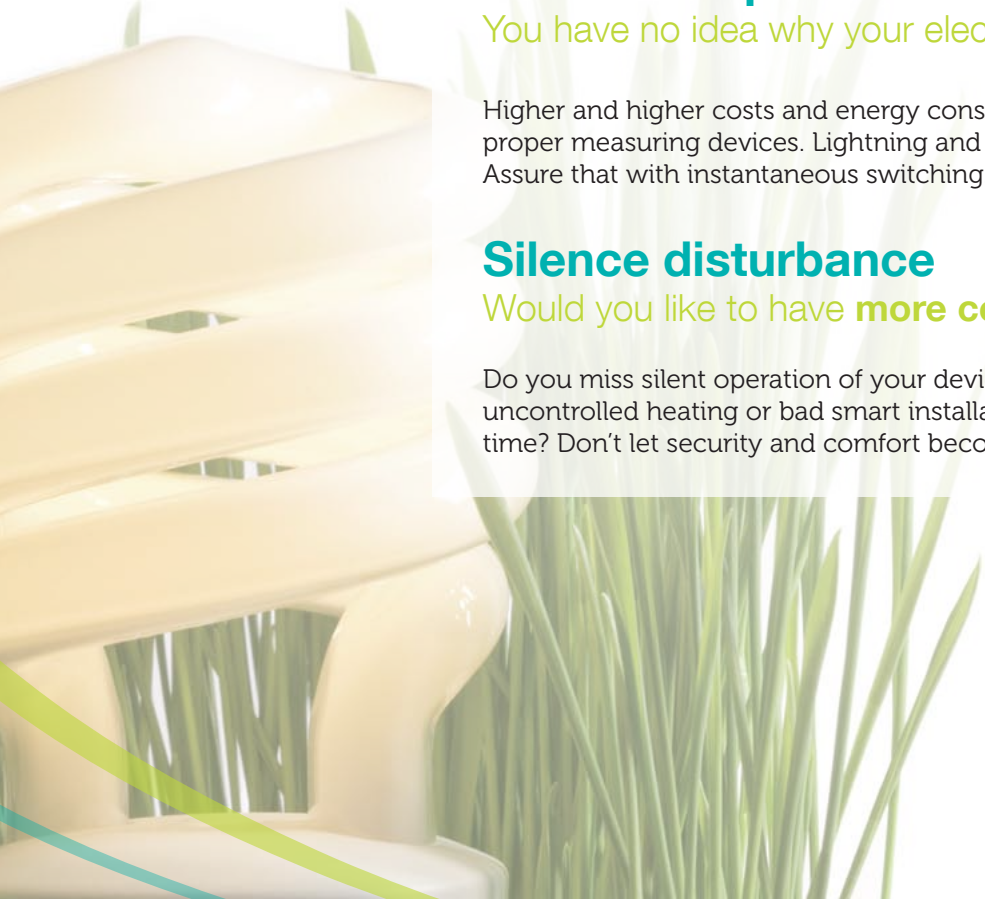
You have no idea why your electricity bill is **so high**?

Higher and higher costs and energy consumption **can be controlled** with the use of proper measuring devices. Lighting and appliances should work only when needed. Assure that with instantaneous switching.

Silence disturbance

Would you like to have **more comfort** in your apartment?

Do you miss silent operation of your devices? Are you waking up because uncontrolled heating or bad smart installations switching on or off in inappropriate time? Don't let security and comfort become only a wish. **Make it happen.**



Security ●

for **protection** from **electric shock**.

Install all degrees of surge protective devices for **protecting** you and your property. Use miniature circuit breakers to prevent overheating of lines and aging of wiring. Don't forget to install current circuit breakers as **required by regulations and standards**. They don't protect you only in bathrooms.

Control ●

for **secure manipulation** of your devices.

Miniature circuit breakers **ensure perfect ratio** between the size and switching capacity of all types of your consumers. Ensure continuous supply with built-in switching apparatus and enhance safety by means of switch disconnectors. **Long life is assured** for all our switching apparatus.

Saving ●

for **lowering** your **electricity bill**.

Use an energy meter for each greater consumer in your dwelling. Install installation contactors with manual switch-on for the operation of devices in the most favourable time. Mount our time relays where permanent illumination is not required and in this way cut your costs electricity bill.



MCBs

- over-current protection of installations and devices
- wide choice of rated current 0,5 to 125 A
- high rated short-circuit capacity up to 10 kA
- tripping characteristics B, C and D
- switching of AC and DC currents
- all combinations of poles



Installation built-in devices

- they are used as main switches in house distribution boxes or as switches for individual electric circuits
- a handle can be sealed in ON or OFF position
- rated current 0,5 - 63 A
- high rated conditional short circuit current up to 10 kA



RCCBs

- residual current circuit breakers are used for protection against indirect contact, fire protection and additional protection against direct contact
- you satisfy a standard requirement in many installation regulations
- available A and AC types
- rated residual operating current 0,01 to 0,5 A
- rated current from 16 to 100 A



RCBOs

- this is a special protection device with combination of a residual current circuit breaker and a miniature circuit breaker
- effective built-in protection against overload and short-circuit
- sealing in ON and OFF position available
- rated residual operating current 0.01 to 0.5 A
- high rated short-circuit protection



Overvoltage protection

- overvoltage surge protective devices have been developed to protect against partial direct and indirect lightning discharges
- single or multiple pole devices for all network configurations
- visual display of function and defects
- protection class A, B, C and D
- high surge discharge ratings up to 100 kA

...To our solutions.

Electrical installations can be even
50% more efficient.

Comfort ●

provided by **automatisation** of installed devices.

Modern design of AC/DC control systems in installation contactors do not cause any noise. **Don't pay costs** for readout and provide for remote readout of consumed energy. Automate control of your devices and make your house smart to have more free time.



Time relays



- for saving energy in stairway lighting systems
- multifunction time relays with built-in microprocessor technology
- time ranges from 1 s to 500 h
- select one relay for voltages 24 to 240 V AC/DC
- contacts up to 16 A/250 V



Switch disconnectors



- used as main and emergency stop switches, maintenance switches or safety switches
- available versions as door interlock, direct operation and front door mounting
- rating from 16 to 125 A



Distribution boards INO and IPO



- transparent or white door
- additional terminals for PE and N conductors
- no. of modules from 4 to 36
- protection class II
- degree of protection IP40



Energy meters



- modular energy meters for assembly on DIN rail, with LED display and impulse outputs
- single-phase meters for direct connection of currents up to 100 A
- three-phase meters for direct connection of 150 A or connection via X/5A current transformers
- simple system assembly and wireless connection of a communication interface
- modular communication interfaces: RS485, LAN-TCP/IP, M-BUS, ProfiBUS, EIB-KNX, LPR868 (impulse output)
- a version with a MID Directive available for billing measurements



Installations contactors



- switch your devices independently of tariff and when control voltage is not applied
- you can turn off control voltage when you want
- such AC/DC is available only in our company
- control voltages 12 to 230 V

Improve the installations of your building and **decrease** your electricity bills.

Iskra MIS has solutions to your problems. To help you achieve your objectives and to improve your safety.

Your safety is in your hands. **Take action.**



Don't waste your **time** and **money**. **Act now.**

You can prevent the power failures, overheating of the substantial parts of your installations, overvoltage and excessive electromagnetic influence. You can **install human- and environmentally friendly equipment and installations.**



By installing Iskra products you can avoid interruptions of supply, you can ensure proper and continuous functioning of the equipment and devices. **The quality of your energy will be improved by remote control and readout.**



With Iskra's installations you can improve the **comfort** and **safety of living.**



Use our solutions for your **benefits.**

- lower consumption and cost for energy products
- automatic remote readout of consumption of all energy products
- fast energy analysis and forecasts
- supervision of electric energy quality
- simple and low-cost system installation, integration and introduction
- decrease of costs by informing a user in real time and possibility for immediate action
- faster correction of failures by means of analysis and location of failure in network
- inspection of consumption and detection of losses in network together with the possibility of eliminating reasons for losses

Make the **smart** move.
Contact us.

