FRAKO

UNIVERSAL, FLEXIBLE, EFFICIENT, NETWORKED

FRAKO PQC Pro

SOLUTIONS ANALYSIS POWER QUALITY

PQC PRO

OPTIMIZED FOR EVERY DUTY – MEETING ALL YOUR SPECIFICATIONS

The Power Quality Controller Professional combines the strengths of previous FRAKO reactive power control relays with the latest supplementary functions. A PQC Pro instrument can handle all the tasks demanded of today's ever more complex reactive power management systems, whether maintaining the steady-state voltage stability required by the electric utility, networked reactive power management, external control of master reactive power controllers or true 4-quadrant power factor correction.

The universally applicable control curve makes it possible to comply with all the requirements of a reactive power control system. Despite this high degree of freedom, the FRAKO control curve is easy to parameterize. When requested, our service team will analyse your installation and configure the curve to suit your needs.

The wide range of functions offered by the PQC Pro, when combined with the appropriate number of FRAKO cos φ correction modules, enables all manner of power factor correction duties to be performed, whether inductive or capacitive.

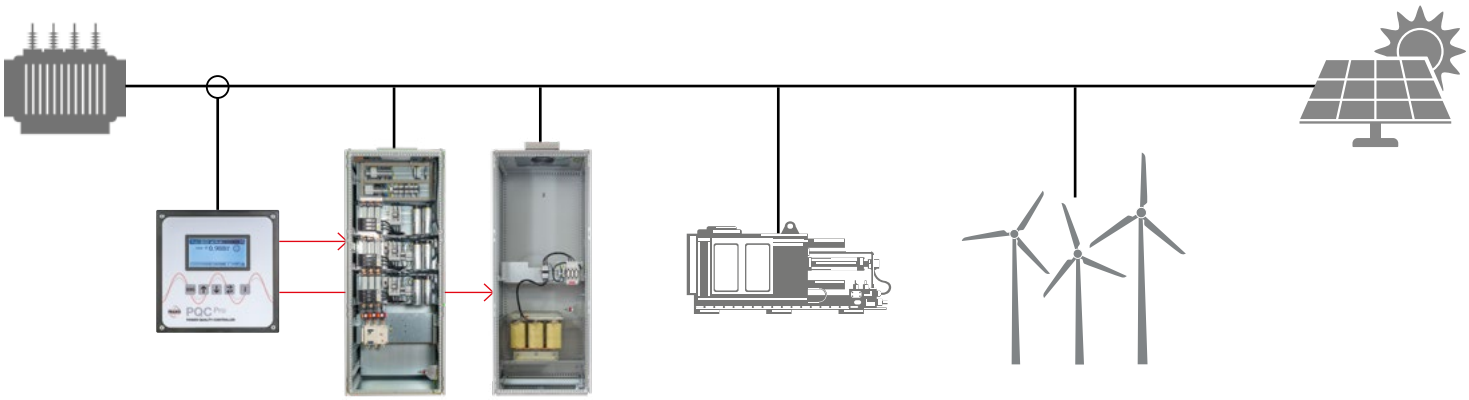
Renewable sources of energy cut electricity costs and reduce the CO_2 emissions caused by a company and its products. However, when these alternative technologies supply power, they must comply with special stipulations made by the electric utility. This is no problem for the PQC Pro, and what is more, a FRAKO power factor correction system does this differently to an inverter! With the latter, some of the valuable active power generated by the renewable source is wasted as reactive energy.

Companies with distributed feed-in points face the challenge of adapting their power factor management to a networked topology, such as one having several transformers and cos φ correction systems. Here as well, the PQC Pro provides optimum solutions. Up to four VAr controllers can be interconnected. One of these acts as the master instrument, controlling the others. For maximum security of operation, each of these slave controllers is programmed with a back-up control function and its own installation protection concept.

THE PROFESSIONAL IN POWER FACTOR CONTROL

- Reactive power control curve as a function of voltage Q(V)
- Inductive and capacitive control
- Networked correction systems
- Target power factor set externally
- Characteristic control curve, adjustable for every duty
- All key information at a glance on instrument or web interface
- Power quality data (optimized for power factor control)
- Extensive messaging on correction system and installation status
- User-friendly operation
- Fully automatic start-up of installation parameters
- Correction of faulty connections
- Forward compatibility for updates
- Communications extensions

FLEXIBLE – OPTIMIZED FOR EVERY DUTY

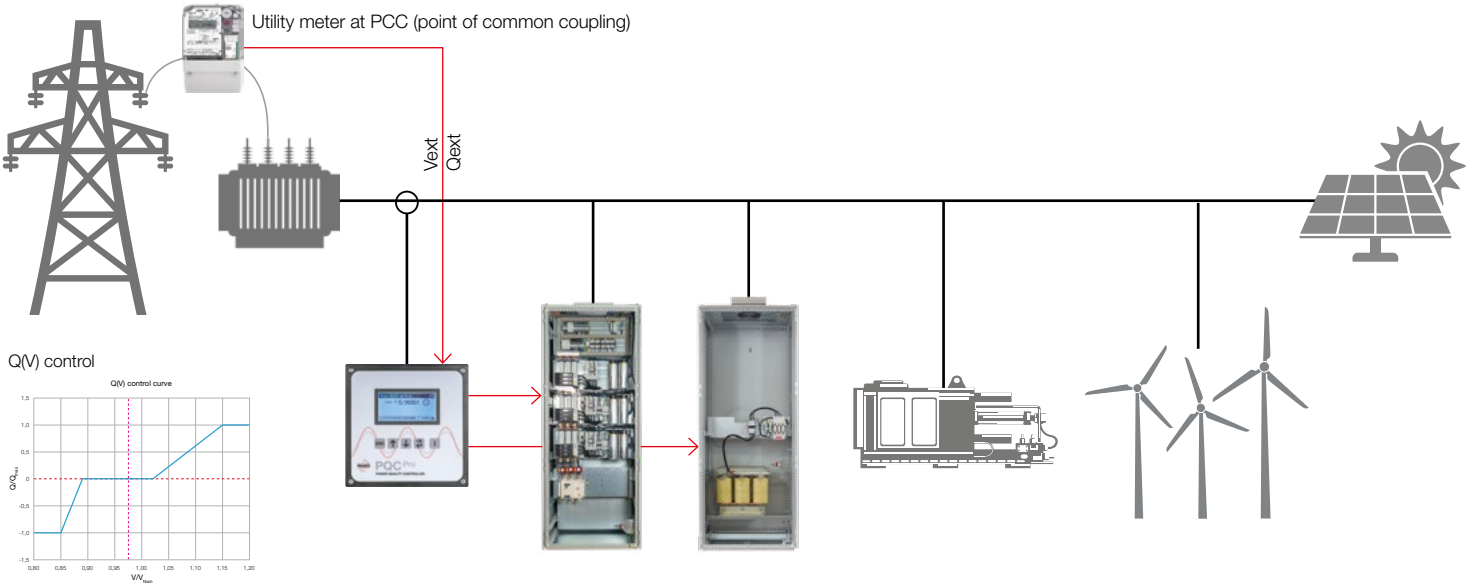


PQC Pro
Power factor correction capacitive and inductive

LSFC
Capacitive cos φ correction modules

LSI
Inductive cos φ correction modules

ELECTRIC UTILITY – EVERY WATT COUNTS



Q(V) control

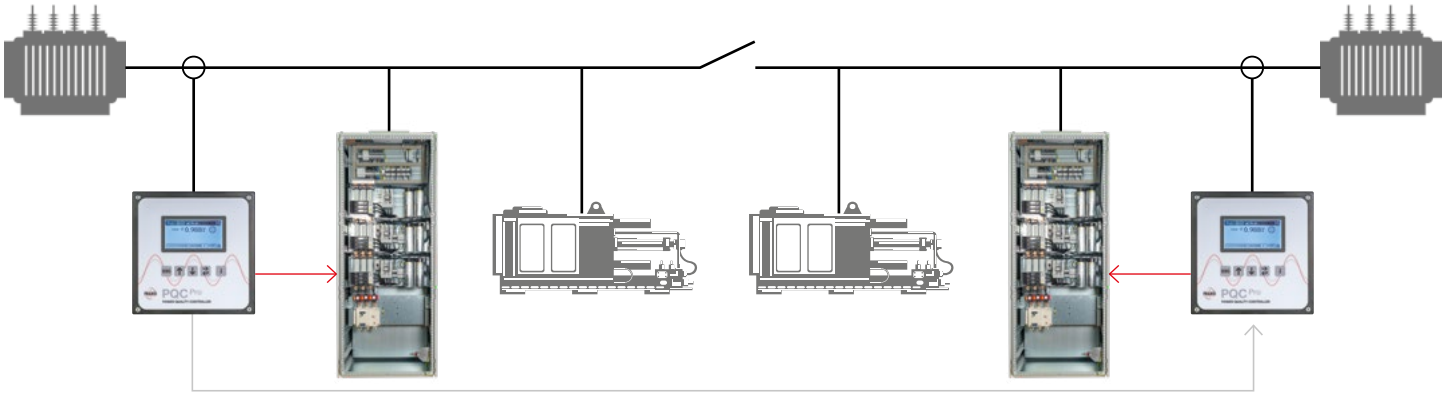
The voltage-controlled reactive power at the PCC establishes itself at a certain level. When a change of load occurs in the low voltage system, the reactive power is restored to its original level.

PQC Pro
Reactive power at the PCC is regulated according to the Q(V) control curve.

LSFC
Capacitive cos φ correction modules

LSI
Inductive cos φ correction modules

NETWORKED – OPTIMUM POWER FACTOR MANAGEMENT



PQC Pro
Master VAr controller
Status of the tie breaker

LSFC
Capacitive cos φ correction modules

LSFC
Capacitive cos φ correction modules

PQC Pro
Slave VAr controller

FRAKO modular power factor correction units, combined with the unbeatable versatility of the PQC Pro, make it possible to accomplish a wide variety of cos φ correction duties with optimum results. Whether inductive or capacitive corrective power is required, the watchword is always “Connect – ready – run”.

Photovoltaic systems and other green energy sources have become hot topics in recent years. They cut electricity costs and reduce the carbon footprint of a company and its products.

However, when these alternative technologies supply power, they must comply with the special stipulations made by electric utility companies, which prescribe measures to maintain steady-state voltage stability when large onsite generation systems are operating.

Compliance with the utility companies’ regulations is no problem with the new PQC Pro. In addition, a FRAKO power factor correction system does this better than an inverter! With inverters, some of the valuable active power generated onsite is wasted as reactive energy.

We help you to make sure that every watt produced from the sun, the wind and flowing water ends up where it is needed.

Companies with distributed feed-in points face the challenge of adapting their power factor management to a networked topology. Here also, the PQC Pro provides solutions specially optimized to meet this need.

Up to four VAr controllers can be interconnected. One of these acts as the master instrument, controlling the others. For maximum security of operation, each of these slave controllers is programmed with a back-up control function and its own installation protection concept.

Please contact us if you have any questions or
would like to know more about the benefits offered
by FRAKO PQC PRO instruments.

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