



# THE FRAKO PQC – PRECISE, FLEXIBLE AND UNIVERSAL

More versatile control of power factor



The  
POWER  
QUALITY  
CONTROLLER  
fit for the  
future

The new universal control characteristic curve makes the FRAKO PQC even more flexible in use. It can be relied upon to optimize the power factor not only in classical correction systems but also in state-of-the-art decentralized power generation networks. In addition, the universal control curve ensures extremely efficient operation of the power factor correction system with minimized component wear.

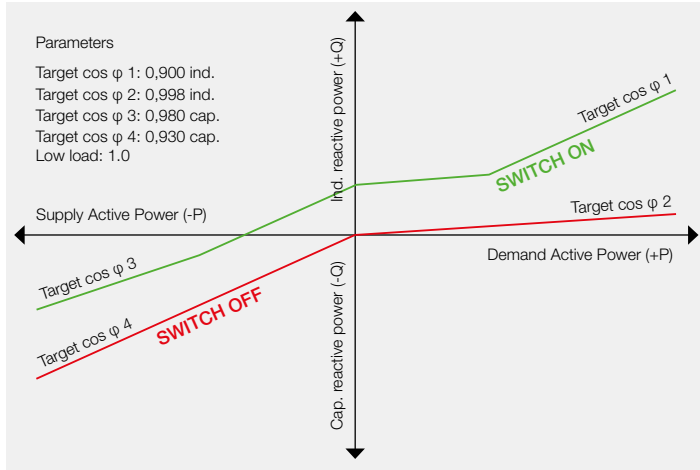
Continuous monitoring of system variables and control parameters means that critical situations are detected in good time. By means of selective switching, the PQC protects the installation against overloading, thus guaranteeing safe and reliable operation of the correction system.

The FRAKO PQC offers long-term control system benefits

- **Simple installation, easy operation** plus automatic initial start-up
- **Universal control characteristic curve** for flexible 4-quadrant operation, offering controlled reduction of reactive power in consumer and generator networks
- **Minimized number of switching cycles** to greatly reduce the wear of components
- **Continuous monitoring** of the power factor correction system
- **Flexible alarm management** with judicious shutdown strategy in critical situations to prevent injury or damage
- **IoT ready**

# THE INNOVATIVE PQC – SETTING A NEW STANDARD IN PROVEN FRAKO QUALITY

For the world of today and the challenges of tomorrow –  
the new control curve from FRAKO\*



## Consistently better

The new control characteristic curve with its increased control range has been shown to significantly reduce the number of switching cycles compared to earlier curves.

This new universal curve gives the system flexibility in responding to the reactive power demands in both consumer and generator installations. Configuration of the upper and lower cos  $\varphi$  values enables the control characteristic to adapt to exactly comply with utility company specifications. Different control curves can be set for power draw and power feed-in conditions.

## Profile switching for even more flexibility

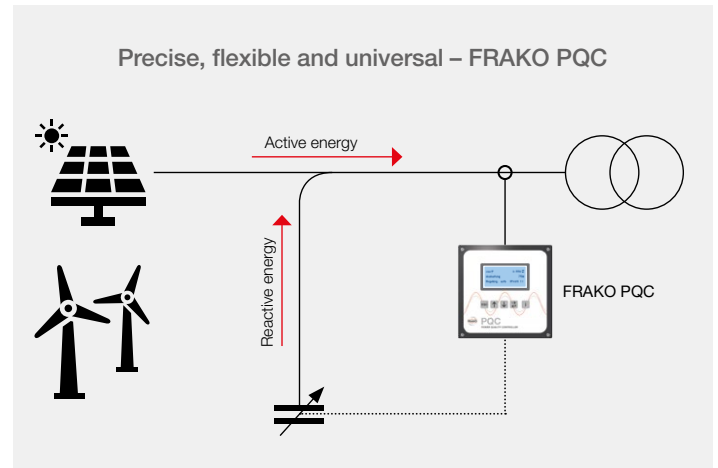
The new universal characteristic curve boosts the versatility of the instrument, enabling it to meet additional challenges, particularly those posed by power factor correction in plants that generate electricity. An automatic switchover function – between up to 5 control profiles – is already integrated in the FRAKO PQC. Switching is prompted either by the active power or the measured voltage. If a Temp. I/O module is fitted, the profiles can also be switched by the digital input signals.

## Protection of personnel and installation

The FRAKO PQC continuously monitors all electrical variables relevant to system operation, thus significantly enhancing safety and reliability. It shuts down the system to protect it if it is overloaded, but automatically reverts to continuous control once dependable operation has been restored.

## IoT ready

With the FRAKO PQC, you are prepared for the Internet of Things. The PQC makes all measurement readings and system data available at its optional Ethernet interface. In addition to the Modbus protocol, it also supports the REST protocol, one of the simplest options for data acquisition. The Ethernet variant of the PQC also offers a web server.



## Efficient provision of reactive energy for power draw and power feed-in

The new universal characteristic curve in the FRAKO PQC makes efficient control possible, not only in classical power factor correction systems for electricity consumers, but also in installations that feed power into the supply network. This enables the yield of billable active energy from electricity generators to be considerably increased. While the generators and converters are feeding in active power, the correction system supplies the required reactive power at a level adjusted to suit the active power.

\*New control characteristic curve from version 4 on;  
older versions can be updated.

Get to know the benefits that the new FRAKO PQC offers!

**Just give us a call, we will be very happy to discuss your specific requirements.**



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