



# SIMEAS R-PMU – 4 in 1

Power Transmission and Distribution

**SIEMENS**

# Today's Power Networks

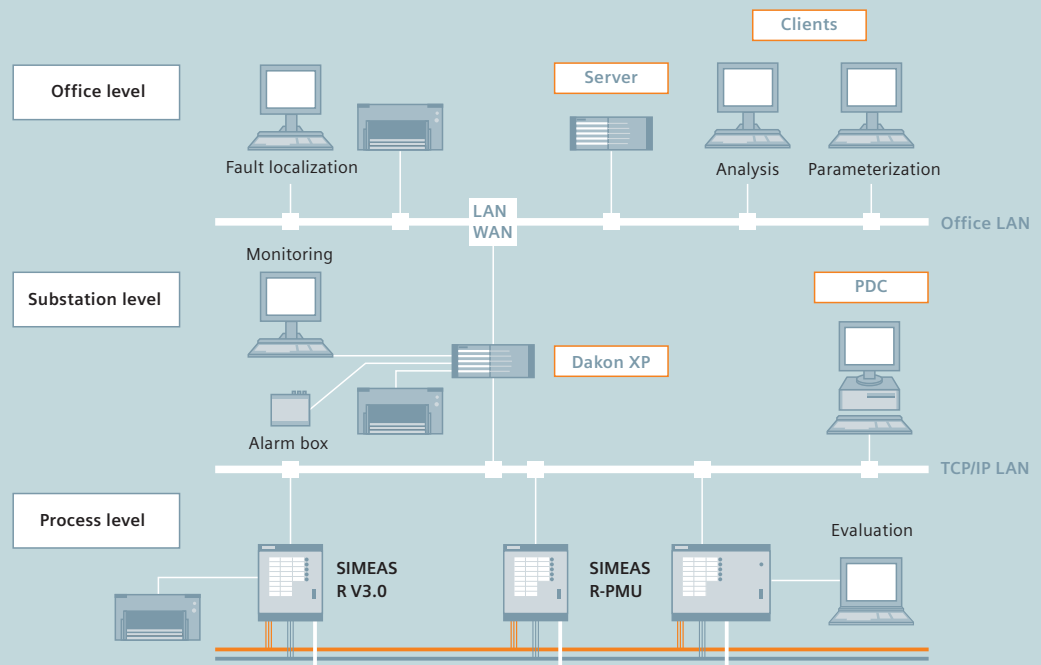
Power networks are affected by a multitude of external factors:

- With the liberalization of the energy markets, energy trading continues to gain in importance.
- Pure distribution networks are increasingly turning into transmission networks.
- Separate interconnected power networks are being combined into ever larger networks.
- The utilization level of power grids increases and is already reaching critical limits in some locations.
- The growing number of non-decoupled distributed power generating entities leads to increasingly complex dynamics throughout the power grid.

The continuing effects from such factors can put the stability of your electricity network at risk and have costly and detrimental effects on the quality of your electricity supply, up to and including image damaging blackouts.



## System overview



# SIMEAS R-PMU – 4 in 1

## Precise Measurements and better Network Stability

SIMEAS R-PMU combines the following four functions in a single device:

- Phasor Measurement Unit (PMU)
- Fault recorder (transient analog recorder and transient phasor recorder)
- Continuous recorder
- Event recorder

The latest measuring and recording technology always keeps you up to date on the status of your electricity network.

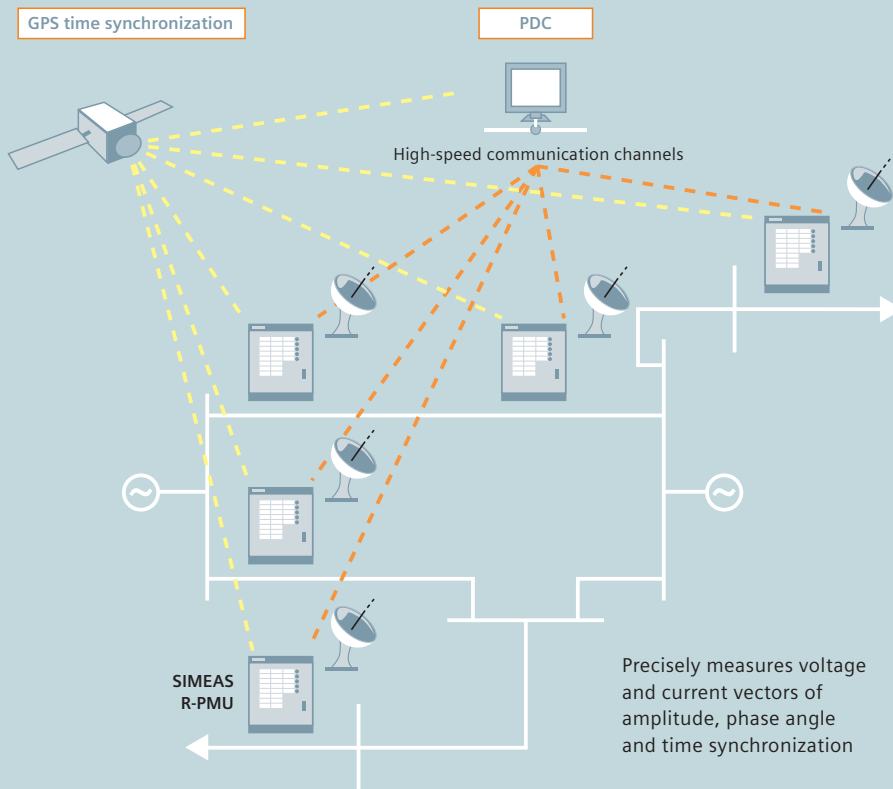
In addition to the usual fault recorders, SIMEAS R-PMU includes an integrated Phasor Measurement Unit (PMU) that measures and displays phasors in accordance with the IEEE-Standard C37.118-2005. Measured phasors can be transmitted to a Phasor Data Concentrator (PDC).

Obtained measurements can also be stored via a continuous or transient fault recorder in an integral ring memory and subsequently analyzed by a DAKON XP PC with the OSCOP P V6.60 program package. The phasors constitute an accurate database for large-area network monitoring or a potential early warning system for the analysis of network stability. Deploy SIMEAS R-PMU units only at strategically important points in the network. This is a cost saving measure, since a data source is not required for every branch.

**Act Quickly! Malfunctions have very costly consequences. Now is the time for new solutions!**

You can also order SIMEAS R V3.0 with fault recorder and Power Quality.

### SIMEAS R-PMU improves network stability



## SIMEAS R-PMU – Your benefits at a glance

- PMU in accordance with IEEE-Standard C37.118-2005 including interface for a PDC
- High-quality fault recorder and continuous mean-value recorder
- Lower acquisition cost and reduced wiring expense through the use of a multifunction unit
- Compare different real-time recordings with high sampling frequency, high resolution, and high accuracy through GPS synchronization across the entire network
- Redundant data management by mass storage within the unit

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