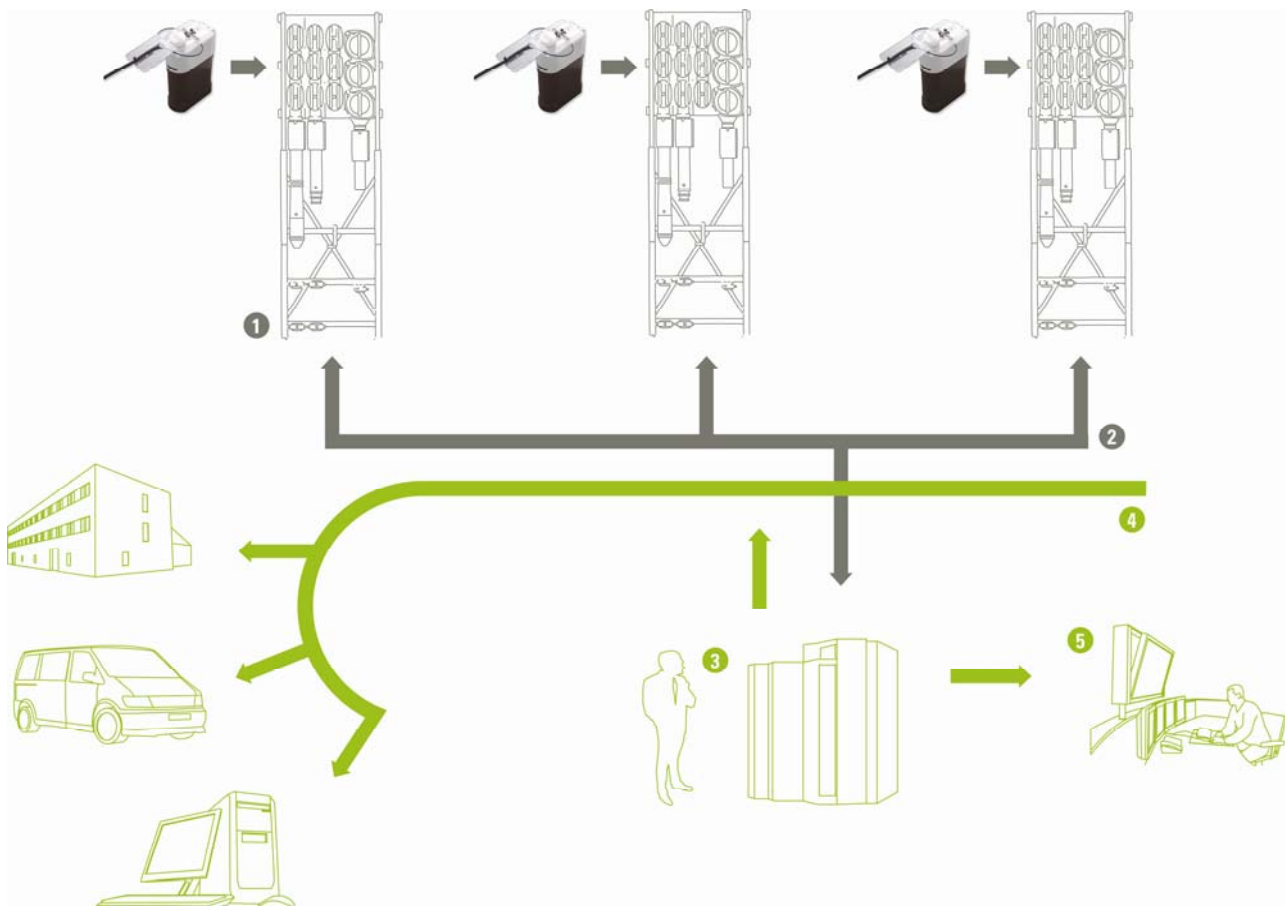


Magnefix Type: Retrofit of existing Magnefix Kiosk Substations

PowerSense's cutting-edge monitoring and control equipment has been designed for retrofitting existing Magnefix type substations. The solution is based on our optical DISCOS[®] Sensor technology and a specially designed LV voltage module. The DISCOS[®] System is installed directly on the MV and the LV power lines and has been designed to be retrofitted to any existing power equipment. Installation of the DISCOS[®] System on the MV lines requires switching of the distribution transformer for max 15 minutes, whereas installation of the DISCOS[®] System on the LV lines can be done *live* and without marking any electrical or physical intervention on the installation. Total installation time for an electrician will be 3 hours.

The PowerSense Magnefix solution can be used in combination with PowerSense Kiosk and Chamber Substation solution and the PowerSense Overhead Line Solution.

Concept Drawing



1. The DISCOS® Optical Current and LV Voltage Sensor are installed directly on the MV and the LV power line.
2. The DISCOS® SmartCom RTU can communicate in several different channels, for example TCP/IP, GPRS, GSM, GPRS and BPL. Using different communication protocols like IEC 60870, IEC 61850, MQTT or simply XML. Different messages can be sent through different communication channels. This means that Fault Management information can be sent directly to the SCADA system, and Asset Management information can be sent to other IT systems.
3. Data are available in the customer database.
4. Data are available in the customer's high-level IT system through the Advanced Service Bus System.
5. All data are visualised in the SCADA platform.