

High voltage grids

STATIONS FOR GRID OPERATORS

to ensure optimum grid reliability

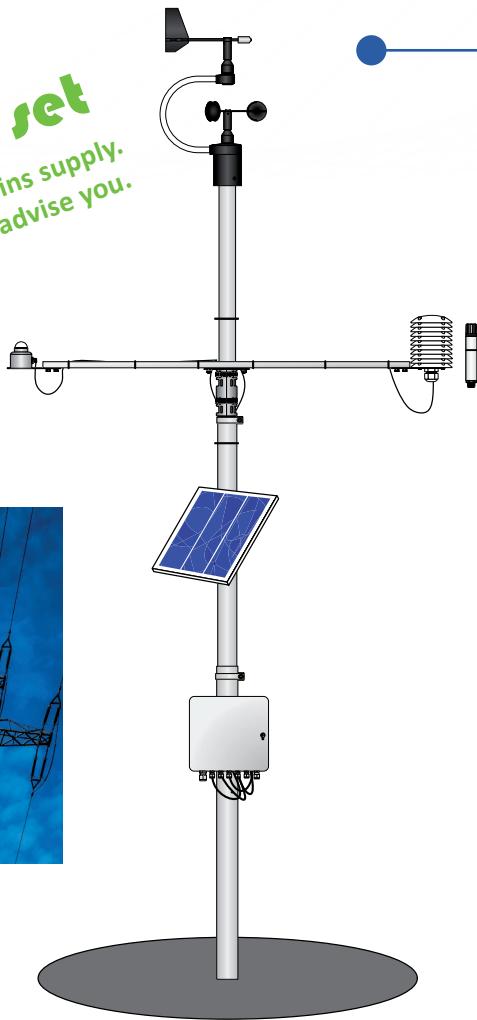
The challenge for grid operators today is to send the optimum amount of electricity through the grid lines at all times. This amount is influenced by a number of factors, including climatic conditions such as wind, temperature and solar radiation. If the overland cables heat up due to external factors, the distance to the ground (safety-relevant issue) on the one hand and the transmission capacity on the other hand decrease.

In complex studies, specially polluted hot spots along a route are identified and monitoring stations are set up. These weather stations are used to record values for wind speed, wind direction, temperature, relative humidity and, if required, global radiation.

On the basis of these data, among other things, the voltage fed into the grid is controlled and the use of the grid is optimised.



Complete set
*Also possible with mains supply.
 We will be happy to advise you.*



Weather station

Complete weather monitoring station for grid operators

consisting of

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| 00.14582.070470 | ARCO SDI-12 Combined wind sensor |
| 00.08095.100000 | THP[pro] Combined sensor with membrane filter for the parameters air temperature, rel. humidity, air pressure |
| 00.08141.600004 | Weather/ radiation protection shelter, electrically ventilated |
| 00.16103.501060 | Pyranometer „ISO Second Class“ |
| 00.95770.000000 | Ser[LOG] serial data acquisition and communication system |
| 32.95666.032000 | Mast support for LOGGER-H (housing) |
| 32.95666.030000 | Sheet steel housing IP 66 · Prepared for mounting of data logger components Dimensions: 380x380x210mm HxWxD |
| 32.95666.040080 | LOGGER-CC2 · consisting of: Charge controller for solar supply Mounting rail bracket for charge controller Mounting rail with connection clamps |
| 32.95666.055040 | TROPOS-SOLAR/2 Solar panel max. 50 Watt (incl. mast mount, battery 12 V/32Ah, connection cable) |
| 32.90268.002010 | Modem set consisting of: modem, data cable, power cable, round antenna |
| Complete set incl. all necessary cables | |