



SIROKO

Antennas Control System

"SIROKO" Antennas Control System

allows to interface signals from different antennas to inputs of measuring equipment and receivers, such as: radio and measuring receiver, radio detection finder, spectrum analyser or receiver card. 8 antennas and 4 measuring equipment or receivers may be connected as a standard. SIROKO allows for independent setting-up of 2 high frequency signal paths. Such configuration may be customize according to the customer requirements.

SIROKO may be implemented in radio Communications systems, where the high frequency signal from different antennas must be directed do appropriate receivers (measuring equipment, radio detection finders, etc.) depending on the tasks to be performed by the system.

SIROKO was implemented, among others, in the automated radio spectrum monitoring system in use by the Electronic Communication Agency.

System composition:

- Ouside commutator KZ 8/2,
- Internal commutator KW 2/4,
- SIROKO system controller,
- AR/AE 1049 rotator.

System Control

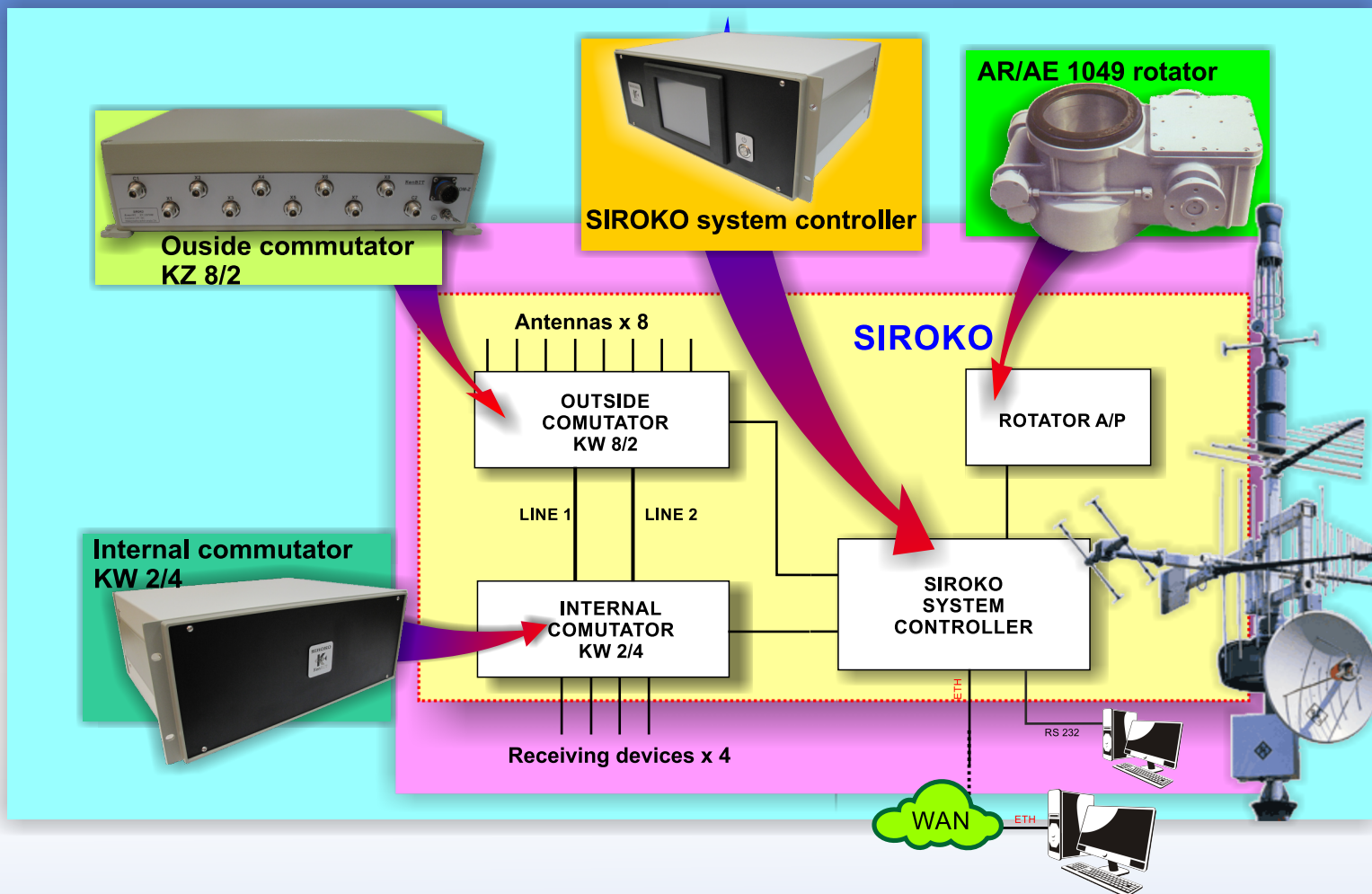
Controller of rotator and commutators allow management by using:

- Integrated built-in front panel,
- Remote access via web browser, RS-232 interface (9600 / N / 8/1) and LAN interface (UDP / IP port 7755/7755).

FEATURE

- Capability of switching high frequency signals from different antennas to measuring or radio communication equipment inputs.
- Set-up of 2 independent signal tracks.
- Antennas position in azimuth and polarization change.
- Local and remote control.
- Installation in 19" RACK.





Outside commutator KZ 8/2 is the outsider device (installed on antenna mast) designated to switching over the high frequency signals from different antennas. Commutator is resistant to environmental conditions. Number of available antennas to be plug in and KZ commutator track signals may be adjusted according to user requirements.

Rotator and commutator controller is a device to control KZ 8/2 and KW 2/4 commutators and rotator (for example AR/AE 1049) for antennas positioning in azimuth and polarization change.

Internal commutator KW 2/4 is an internal device (RACK type) cooperating with KZ 8/2. It allows for commutation of two high frequency independent antennas tracks (feeders) together with plugged antennas the receivers (radio communication receivers, direction finders, etc.) selected by the users, which are interfaced with the device output (max. 4 components). Number of commutator KW 2/4 possible antennas tracks and high frequency receivers may be adjusted according to user requirements.

- Technical parameters**
- Operational frequency range: 0 to 3 Ghz.
 - Number of commutated inputs: 8.
 - Number of commutated outputs: 4.
 - Impedance: 50 Ω.
 - Antenna connector type: N.
 - Switching time (max): 100 ms.
 - Number of switching cycles (min): 1 000 000.
 - operating temperature: 0°C to 50°C (outside commutator and antenna rotator: -35°C to +50°C).

AUTO	Wyjście 1	Wyjście 2	Wyjście 3	Wyjście 4	Wyjście 5	Wyjście 6	Wyjście 7	Wyjście 8
						TOR 2		
								TOR 1