



# INTERLOCKING SYSTEM REMOTE CONTROL (CTC) TYPE DOZ 1

- Electronic system connected to station interlocking systems
- Failsafe and reliable system meeting SIL4 requirements according to CENELEC Standards
- Compatible with AŽD Praha interlocking systems
- Possibility to carry out mandatory documented (safety critical) operations
- Communication through fibre optic or metallic cables
- Updating of relief display each 200 ms
- Remote control allows to control any signalling equipment (electronic and other upgraded by relevant interface)
- Low maintenance cost



### General Description

Remote control system DOZ-1 is designed to control several station interlocking systems from a single location (one dispatcher's centre). To increase reliability the stations are connected by two independent communication branches. Station relief is displayed on VDU eventually it can be supplemented by large screen display. The control is carried

out from dispatcher's commanding computer by keyboard and mouse. Because the display covers the entire track section (even more than 100 km) the remote control dispatcher has a much better general picture of traffic situation in the area, helping him in decision making. This way the traffic control becomes more efficient.

electronic traffic documentation, displays actual traffic overview, communicate with superior railway informative and control systems in data way (e.g. information system of operational control).

### Basic Technical Description

Remote control of up to 20 interlocking equipment within a single area.



Besides the improvement of general view and orientation, each DOZ-1 remote control is equipped by transmission of a train number and GTN application. GTN application automatically process

Maximum number of 12 dispatchers commanding computers for a single area which can be selectively configured and fungible.

Station relief display on one or up to eight VDUs.



Possibility to connect large screen display.

Extent of the controlled area is up to hundreds of kilometers (through fibre optic cable).

Option to carry out mandatory documented operations (safety critical).

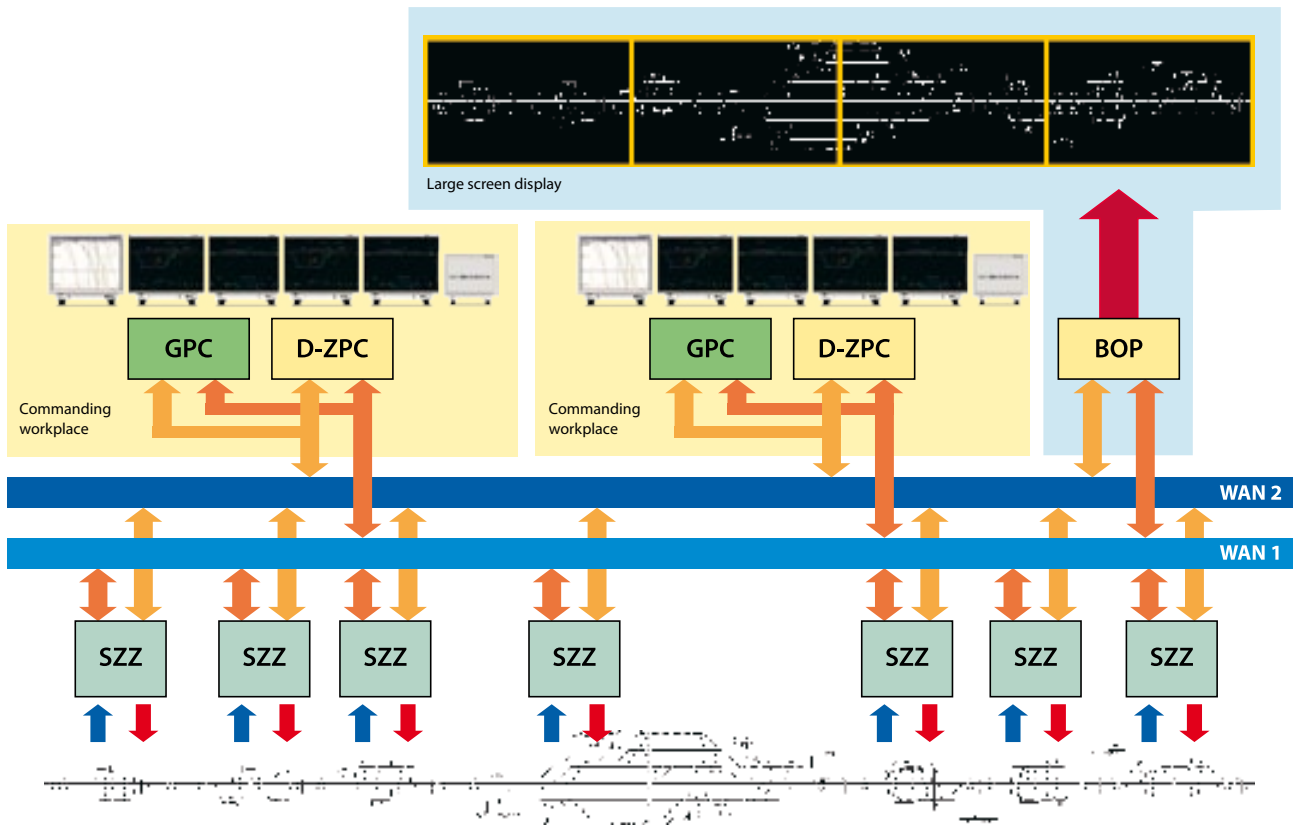
Option of setting the train route through several stations all at once.

Intelligent selection of different station railyard types.

Option to connect indication and control of other technology (e.g. fire detector, building security, etc.).

### Basic Technical Parameters

Power supply	230 V ± 10 %, 50 Hz
Working temperature range	+5 to +55°C
Maximum permitted air humidity	90 % at 20°C
Location	technology room with power supply standby



Block diagram

### Legend:

- SZZ** – station interlocking
- WAN** – wide area network
- D-ZPC** – dispatcher's commanding computer
- GPC** – GTN computer
- BOP** – information computer

