



TONZED

- Large spanned attenuation – 20 dB with no amplification
- Local power supply
- Use of original cabling during reconstructions
- Use of proven DTMF dial
- Can measure line attenuation



General Description

TONZED – (Tone call-back) is basically dispatcher’s semiduplex system located in a railyard used as a communication place of backward radio system. TONZED is designed as a box for mounting to a mast. TONZED set cooperates with all public address systems enabling the backward radio system.

Basic Technical Description

SRZ control unit is a sheet metal box in the vertical operating position including electronics.

SUZ subscriber unit is a cast. Inside it includes: microphone, speaker, PCBs with electronic circuits.

SRZ control units are controlled by an automatic telephone set or from the standard telephone multi-line set.

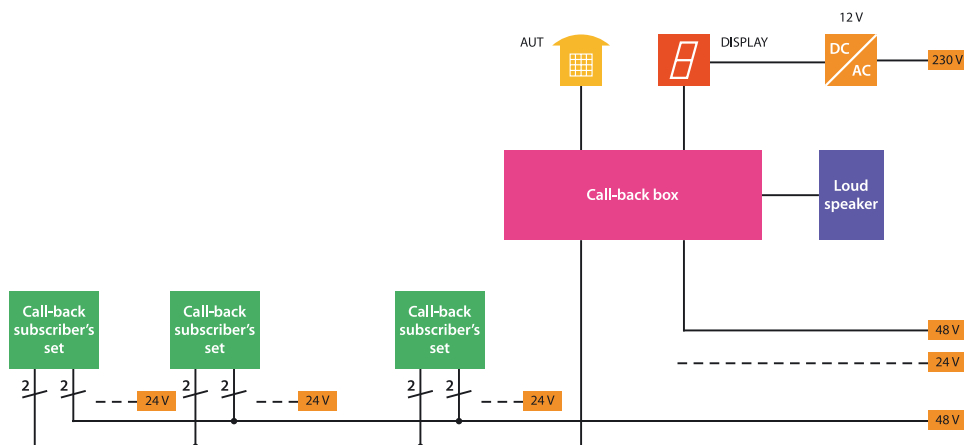
Inactive SRZ and SUZ are connected to the line.

In the basic mode the incoming calls are brought to the speaker box.

When the operator picks-up the phone and dials a double digit number he can communicate immediately.

If the call cannot be made operator is informed by a tone in a receiver.

After the control pushbutton is released the speech mode is switched-over to semiduplex. The number of a calling party is indicated on the display.



Block diagram



Basic Technical Parameters

SUZ	Power supply	48 V, the source must meet the protection transformer standards
	Max. power consumption	5 W
	Electric strength between live parts and ground	500 V, 50 Hz
	Insulation resistance between live parts and ground	5 M Ω
SRZ	Power supply	12–48 V, the source must meet protective transformer standards
	Max. power consumption	7 W
	Electric strength between live parts and ground	500 V, 50 Hz
	Insulation resistance between live parts and ground	5 M Ω
Mutual Parameters	Input impedance	> 4 k Ω
	Output impedance	> 4 k Ω
	Output level (speech signal and DTMF dialling)	0 dBm (+4 dBm /-3 dBm)
	Speech signal input level	min. -26 dBm
	Input level of DTMF dialling	min. -20 dBm
	Transmission medium	local, line and trunk cables