



VTO – OUTDOOR TELEPHONE OBJECT

- Reliable phone for service and emergency communication at railways
- Simple installation and service
- Maintenance free telephone with long service life
- Modern design
- Climatic resistance
- Large product range

General Description

VTO outdoor telephone object provides reliable connection of railway personnel on track with personnel at stations or with users of railway service telephone net.



VTO 3–5 variants allow communicating on two independent lines over local or trunk cable.

VTO 6–11 variants allow communicating on a single line and are assigned for places where this communication is needed (level crossings, stations, home signals).

Basic Technical Description

Parts of the telephone object are installed in plastic box with lockable doors.

Telephone system is mounted on the main stow-away panel. The control elements and receiver are installed at its front side.

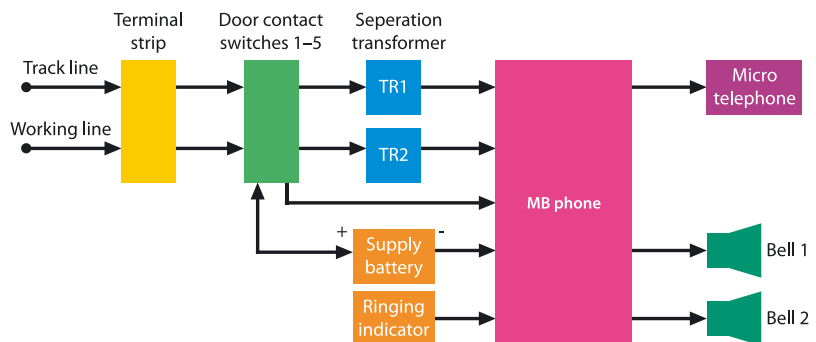
Microphone circuit is supplied permanently by power cells (i. e. nickel-cadmium or alkaline) stored in a case linked to the connector in the object.

For the power supply a central source and converters with output 1,2 V to 3 V can be also used.



All variants include electronic ringing circuits.

The outdoor telephone object VTO is manufactured in different variants according to a location and specific customer request.



Block diagram



Basic Technical Parameters

| | | |
|-------------------------------------|---------------|---------------------|
| Transmitting reference attenuation | | 0 to 5 dB |
| Receiving reference attenuation | | -6 to -11 dB |
| Impedance of ringing circuit | | 1900 W ± 20 % |
| Inductor off load voltage | | 140 V, 25 Hz |
| Call circuit power supply | | 1,2 to 3 V |
| Sound signalling level | | 70 dB |
| Object insulation resistance | | 50 MW |
| Input electric strength | | 4000 V |
| Object electric strength | | 1000 V |
| Insulation resistance of cable head | | 50 GW |
| Cover rating | | IP 44 |
| Box and post material | | PC ABS CYSOLAY |
| Extinguishing degree | | VO |
| Working temperature range | | -40 to +60°C |
| Mean technical service life | | 15 years |
| Dimensions | VTO 3, 6, 9 | 2160 × 286 × 220 mm |
| | VTO 4, 7, 10 | 520 × 220 × 185 mm |
| | VTO 5, 8, 11 | 574 × 274 × 185 mm |
| Weight | VTO 3, 6, 9 | 15 kg |
| | VTO 4, 7, 10 | 7 kg |
| | VTO 5, 8, 11 | 7,5 kg |
| | Concrete slab | 35 kg |

