SOS reporting post TCSIP02

During crisis situations, such as accidents, it's necessary to call quickly the security and the salvage rescue services. The net of mobile operators can be very easily overloaded and it's difficult or even impossible to reach for help. With SOS reporting posts you can call help anytime. Communication with trained operator is simple due to the loud reproduced phone call and also with help of multi-language communication using graphical display. Therefore, the operator doesn't have to necessarily speak foreign language.

To simplify the operation, there are only three backlight stainless steel buttons in anti-vandalism construction serving for placing a call or for multi-language communication with the operator.

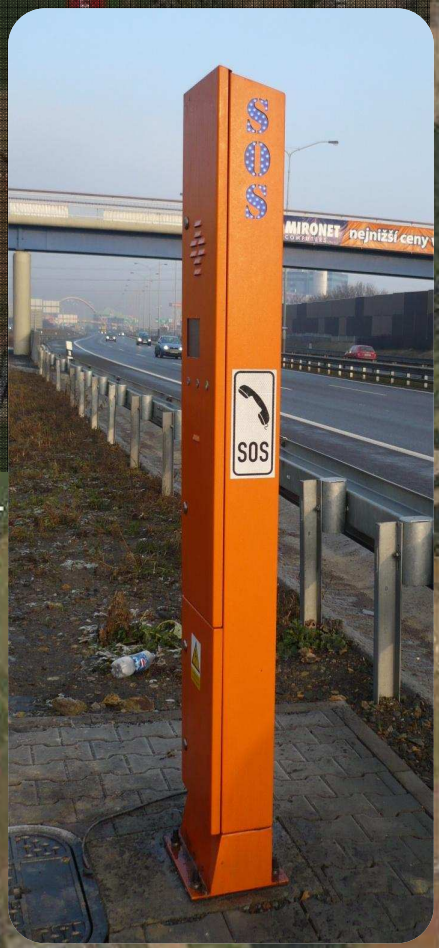
SOS reporting post serves, except of its primary call functions, as a junction point for many telematic devices. Integration of these devices is simple due to industrial protocols support (e.g. Modbus RTU over TCP/IP or UDP, Ethernet/IP, Profibus) and easy integration into all common SCADA and HMI systems.

The skeleton construction is build of chemical resistant stainless steel with high-quality surface finishing against damage, satisfying required standards.

Individual SOS reporting posts are usually integrated into the visualization SCADA system. Integration into all common SCADA system is possible due to the standard communication protocols supported by SOS call post. This way, with the help of electronic of SOS call post it is even possible to integrate other telematic devices. For example, the variable message sings (VMS), meteorological stations, lighting control, traffic counter stations, security devices information and many more.

Engineering characteristic:

- audio: 2Watts, electronic muting of acoustic structure
- color TFT LCD 640x480dots
- Ethernet 10/100Mbit/s
- 2x galvanic separated RS232/RS485
- 1x galvanic separated RS232/RS422
- 1-Wire, Touch screen, 2xPS2, 2xUSB
- slot for SD/MMC cards, temperature sensor
- communications protocols to seamlessly interconnect with common PLC types (Modbus RTU on TCP/IP and UDP, Ethernet/IP, Profibus DP)
- temperature limit : -20°C ÷ +65°C



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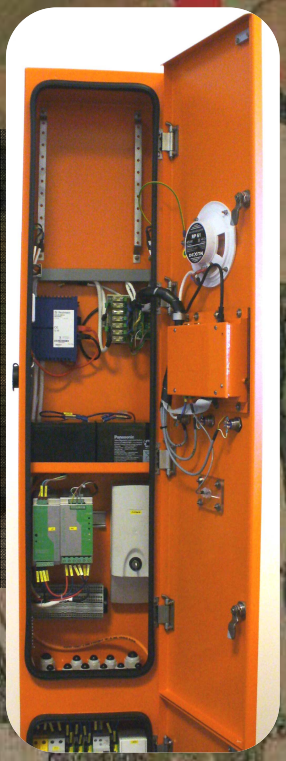
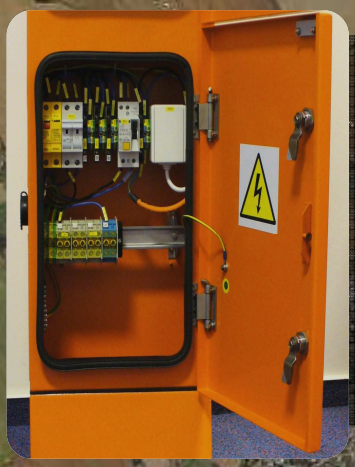
The upper part of SOS reporting post

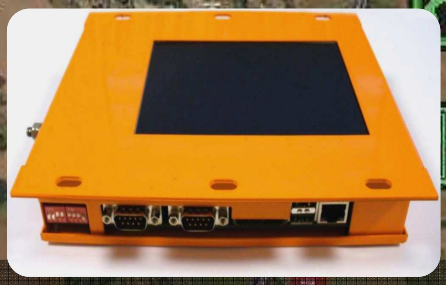
In the upper part, there are only system components of the reporting post (terminals for communication cables terminations, converter 230VAC/24VDC-5A, UPS 24VAC-20A, two batteries 12V/15Ah, metallic-optical switch, distribution of 24VDC, binary I/O card and SOS VMS) Also, here is a place for integration of external devices. On the door, you can see the main communication unit – MCU, speaker, microphone and the control buttons.





The lower part of SOS reporting post

In the lower part of the reporting post are placed the electric component units on 230VAC with over-voltage protection, three separate terminal connections L1,N,PE for connection of external devices and service mains outlet 230VAC.
The power supply of SOS reporting post is protected by earth-leakage breaker.



SOS reporting post electronics

The electronics of main communication unit is designed to resist extreme surrounding conditions. It transfer binary status through LAN net to the upper system (door status, blackouts, battery recharging, battery errors ...), it communicate with external devices on serial ports, and lastly enable the VoIP call.