

SMC



Signal Post Telephone System for Home Signalling

The Home Signal Telephone System is a reliable and convenient wired link for the station master to communicate with outdoor crew and drivers of arriving trains. It also enables the station master to monitor the sounds of running trains and activity at the outdoor location.

The system consists of two devices; an outdoor unit known as a **Signal Post Telephone** or **SPT** and its indoor pair called the **Station Master's Console** or **SMC**.

Handsets are not used at either unit. Voice is conveyed by loud-speaker - microphone. The communication system is semi-duplex.

A single pair of dedicated wires between the two units suffices for all functions of the system and power supply of 12 Volts DC is required only at the **SMC**.

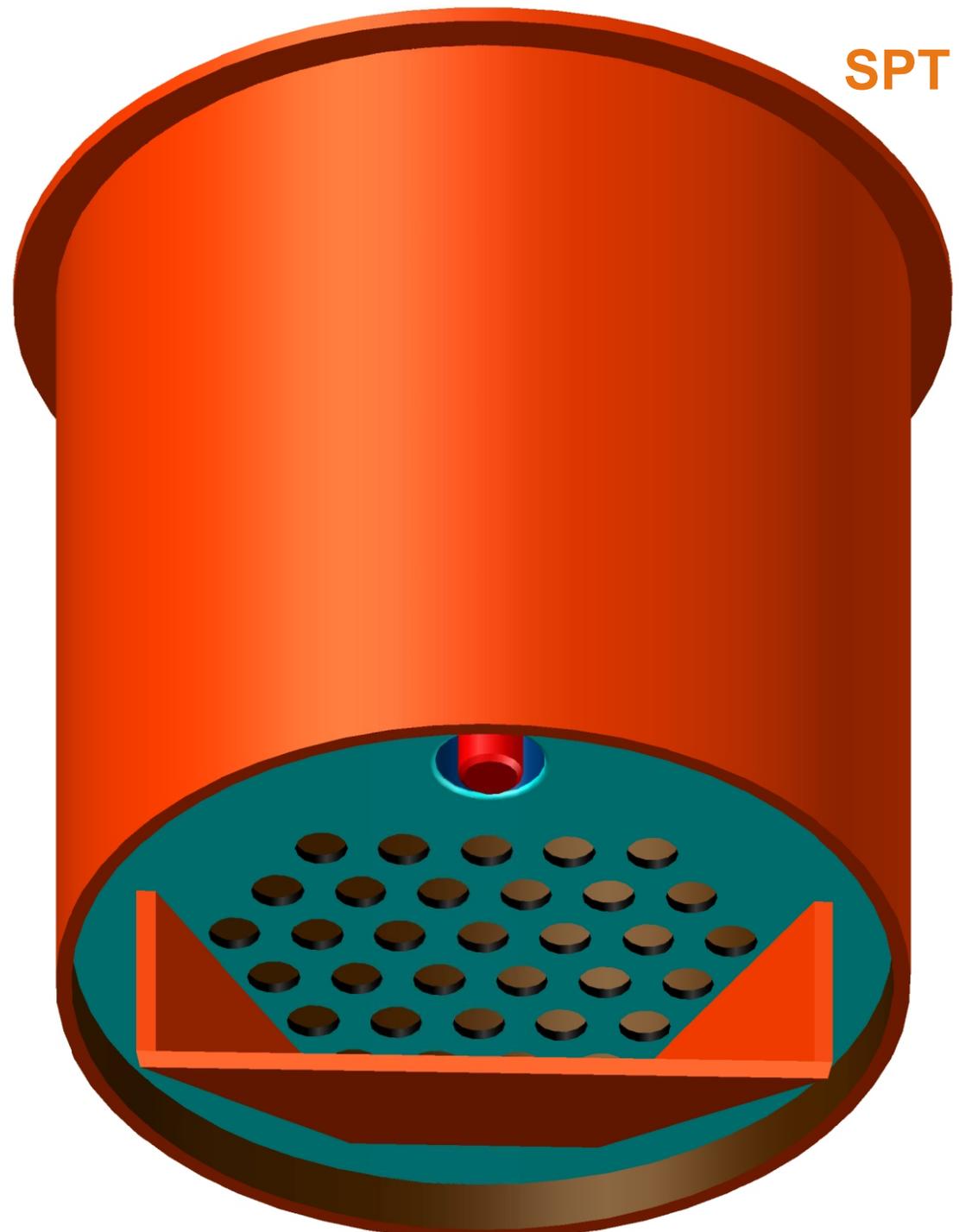
The **SMC** is a robust and ergonomic desk-top or wall-hanging set. It provides push-button controls for calling, monitoring and speaking.

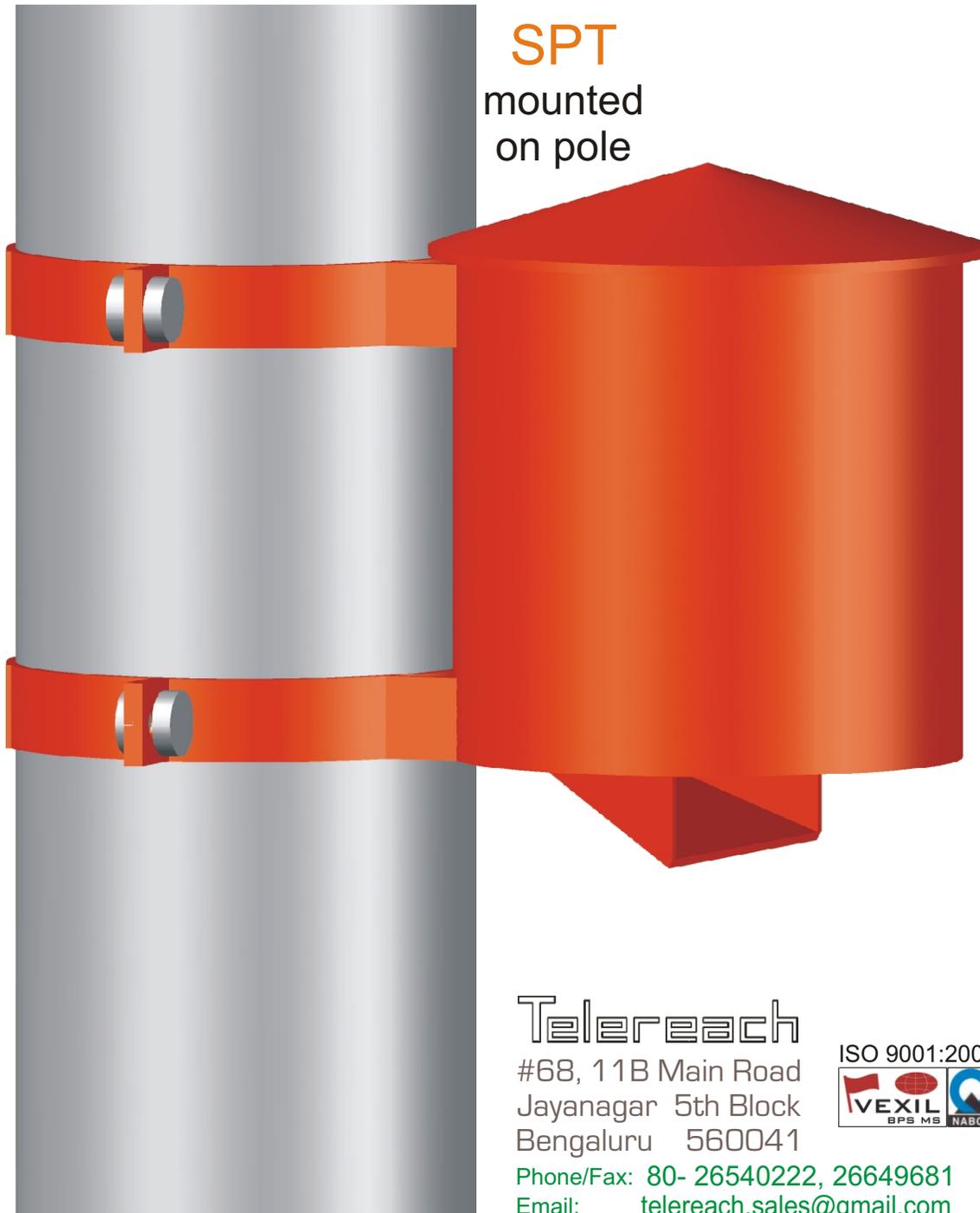
The **SPT** is housed in a thick powder-coated steel tube that mimics the tube of the signal post on which it is mounted at a height of about two meters. It is vandal resistant and can be exposed to a wide temperature range, heavy rain and dusty wind. All openings are situated below the unit to prevent the ingress of rainwater. Insects are kept out by a stainless steel wire mesh.

The outdoor user, such as the train driver or maintenance crew can stand next to it and converse with the station master by speaking into the funnel shaped opening below the unit. Speech from the station master emerges from a loud-speaker through the same opening.

A push button mounted below the set operates a micro-switch to CALL the **SMC**. This is the only control on the **SPT** and all it's other functions are commanded remotely by the **SMC**.

Conversation through the **SPT** is entirely hands-free and it does not require any local power supply.





Calling: When the train driver presses the CALL button below his **SPT**, the **SMC** will begin to ring, alerting the station master. Simultaneously, the **SMC** will send back a tone to the **SPT**, assuring the driver that ringing is taking place at the other end.

Similarly, if the CALL button on the **SMC** is pressed, a loud tone radiates from the **SPT**.

Speech: A Press-To-Talk or PTT button is provided on the **SMC**. With this control the station master can talk to or listen to the driver. The driver has no control. He can walk away after conversation without operating any switch or control.

Monitoring: If his **SMC** is left in the ON condition, the station master can listen to sounds from the vicinity of the **SPT**. Movement of trains, personnel and attacks by vandals can easily be identified.

Specifications:

Power supply (to SMC):	12 V DC, 0.5 A
Amplifier output:	5 Watts
Cable type:	Single pair
SPT housing material:	2.5mm MS powder coated