

Type 354 Emergency Roadside Telephone



The 354 ERT is a high-visibility emergency telephone, which may be configured to meet different installation requirements. Unlike its predecessor, the Type 352A (also made by GAI-Tronics), the Type 354 offers a range of innovative features that greatly improve the clarity and functionality for both the user at the roadside, and for the operator monitoring calls in the Control Office.

By utilizing a sophisticated Noise-Cancelling system, the Type 354 gives improved audio performance both for the road user and the Control Office operator. In addition the innovative use of non-voice communications enables the ERT to be used by people who have difficulty communicating in spoken English (e.g. the hard of hearing

or non- English speaking). 6 languages are supported by the 354 ERT- English, French, German, Italian, Spanish and Welsh

The ERT's many innovative features include:

- display for user prompting, volume control and non-voice communication
- stylish ergonomic design
- patented safety design meeting latest European Standards. BS EN 12767
- environmentally friendly with solar cells and very low power consumption
- low maintenance costs and increased reliability
- rapid installation and replacement
- comprehensive diagnostics including automatic self testing and reporting

Variants

There are three main electrical variants of the Type 354 ERT:

- NMCS II
- Public Switched Telephone Network (PSTN)
- GSM

A feature of the Type 354 design is its modular construction. This allows the ERT to be installed in a variety of applications such as bridge parapet and tunnel situations as well as the more normal columnar version.

The standard column mounted ERT comprises:

- The Column Module
- The Telephone Instrument Module
- The Header Module

There are a number of variations of these modules to cater for specific installations, including:

- Parapet mounting variant (2/4 wire NMCS/ PSTN)
- Wall mounting variant (2/4 wire NMCS/ PSTN)
- Parapet mounting variant (GSM)
- Wall mounting variant (GSM)
- Tunnel variant (2/4 wire NMCS/PSTN) Module Assembly
- Recess variant (2/4 wire NMCS/PSTN)



To establish a call the user simply lifts the handset to initiate the call and connect to the control facility. In addition, there is a variant of ERT known as the 'user service selection' which allows the user to select a service prior to the initiation of a call and the ERT dials the appropriate telephone number for the service selected.

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Control System

The development of the Type 354 ERT included the parallel development of a number of supporting sub-systems:

- Telephone Text Controller (TTC). This PC based system is designed to initiate and manage calls from ERT's where the operator has selected that the call should be switched to a text mode call.
- Centralised Maintenance Depot Terminal Equipment (CMDTE). This is a server based system to which all of the deployed 354 ERT's call into on a daily basis in order to report the ERT's current health status, as well as check and update configuration parameters as necessary. The CMDTE provides ERT health status information directly to the Highways Agency HALOGEN system, as well as providing a GUI front end for user configuration and report information.
- Engineer's Terminals (ET) are handheld units. ETs provide maintainers the ability to diagnose faults, the downloading of new software and configuration parameters.

Maintenance

GAI-Tronics can provide various maintenance packages for all telephones currently used in the UK including the Type 354 Emergency Roadside Telephone. Service levels can be customized to meet individual customer requirements.

GAI-Tronics also has the facility to monitor the Type 354 via our Highways Agency Maintenance Depot Terminal Equipment.

Approvals



This mark indicates compliance with the:
Radio & Telecommunications Terminal Equipment Directive 1999/5/EC (R&TTE)



This mark indicates compliance for inductively coupling to Hearing Aids having a 'T' switch position
Tested to ETS 300-381 and in accordance with ITU-T P37.

European Standards BS EN 12767 – Passive Safety of Support Structures for Road Equipment



The GAI-Tronics Quality Management System has been approved by LRQA to
ISO9001:2008 & ISO 14001:2004 Certificate No. 861888 and OHSAS 18001:2007 Certificate No. 4004472

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