



HIGHWAYS ERT 354

Digital wireless emergency roadside telephone



IEC 62368-1:2024
COMPLIANT

EN 62311:2020
COMPLIANT

EN61000
COMPLIANT

RADIO-ETSI EN 301 511
COMPLIANT

ERT 354 EMERGENCY ROADSIDE TELEPHONE FOR HIGHWAYS

DAC's ERT 354 Emergency Roadside Telephone solution is engineered to provide reliable emergency communication in highway environments where durability and consistent performance is essential. Designed for **rapid roadside installation***, it supports critical voice communication in demanding outdoor conditions, helping to maintain safe and effective response capability.

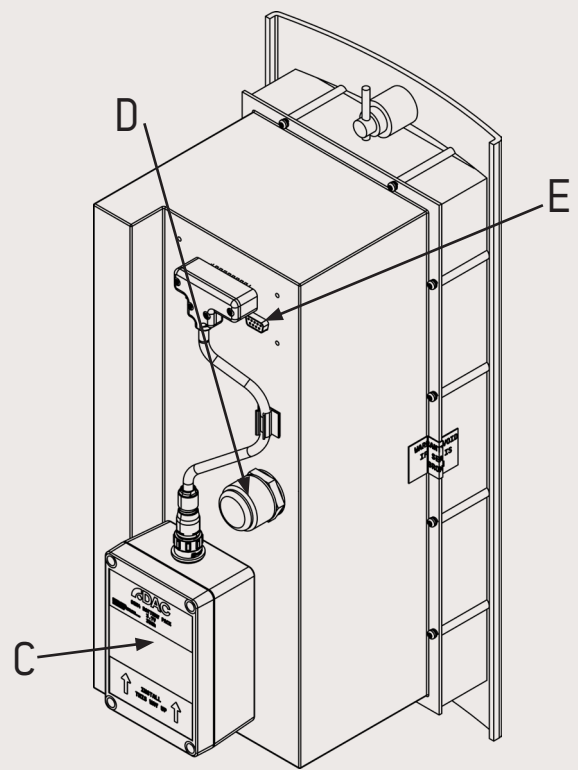
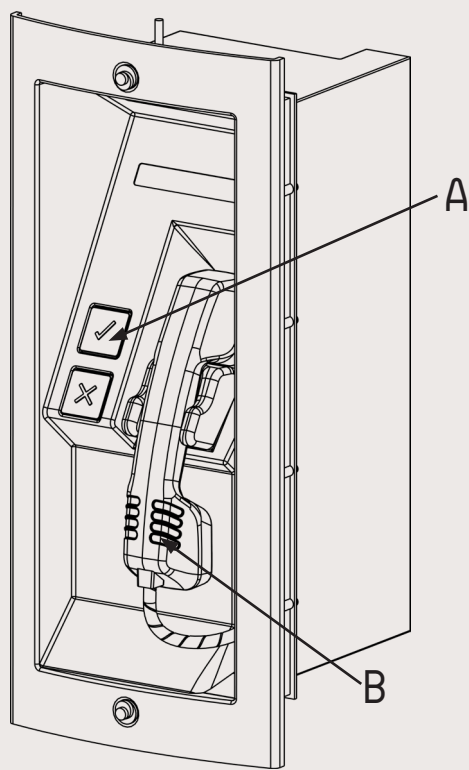
Built upcycling the existing enclosure and using carefully selected components for long-term reliability. DAC's ERT 354 uses the TUFF® Handset, moulded in robust polyurethane material, providing excellent durability and resistance to wear, up to **1,000,000 hours MTBF.***

OUR PARTNERS



***Rapid roadside installation in less than 15 minutes**

***Handset achieved 1,030,396 hours MTBF across ~ 500 RETB Train Cab installations from March 2014 to Aug 2022**



A - IN-CALL VOLUME CONTROL BUTTONS

B - POLYURETHANE TUFF HANDSET

C - 3.7V LITHIUM POLYMER BATTERY (AVAILABLE WITH A 4W SOLAR PANEL HEADER UNIT UPGRADE)

D - EASY ACCESS NANO SIM INPUT WITH PUSH-PUSH INTERFACE (IP66)

E - 9-WAY INTERFACE TO HEADER UNIT

KEY FEATURES

- ✓ Door illumination, external beacon, sounder and IO SSR (solid-state relay) output.
- ✓ Asset Management Software (AMS) for door, battery, hook, signal and periodic monitoring, fault reporting and predictive maintenance and remote diagnostics.
- ✓ Rated to IP65 for dust and liquids.
- ✓ Available with a 4W solar panel header unit upgrade
- ✓ Network Interface: GSM – 2G, 3G, 4G LTE.
VoIP4-coming soon.

COMPLIANCE & SAFETY

MAJOR CATEGORY	RELEVANT STANDARDS
SAFETY	IEC 62368-1:2024
RADIO	EN 62311:2020
RADIO	Radio – ETSI EN 301 511

DAC's Highways ERT 354 GSM4 system has been upgraded using GSM4 technology. The solution provides an LTE/GSM modem and System on Chip (SoC) processor for voice communication, remote fault monitoring and supports LTE (4G), WCDMA (3G) and GSM (2G) wireless networks.

Users can originate and answer calls in a manner that mimics the former PSTN network, including dial tone and DTMF dialling.

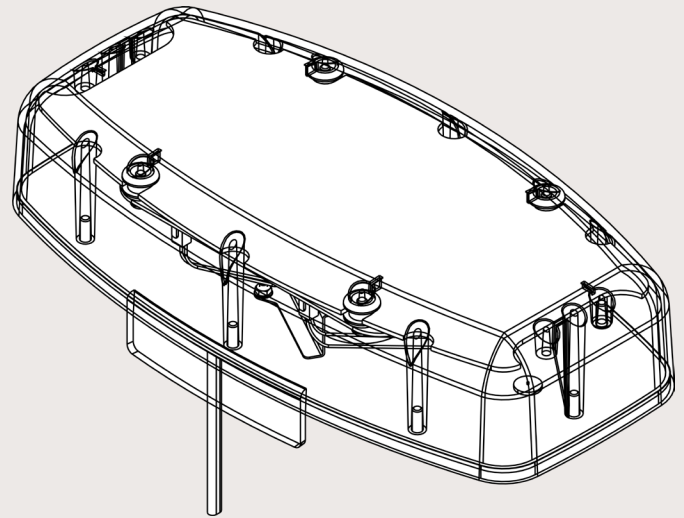
DAC's ERT 354 GSM4 system can be configured using SMS commands from AMS, or a local Wi-Fi access point (AP).

HEADER UNIT-DAC's HIGHWAYS ERT 354

KEY TECHNICAL SPECIFICATIONS

- ✓ Each unit features DAC's power efficient 4W solar panel, which provides approximately **19% more power output** as compared to the legacy design.
- ✓ A highly efficient LED beacon with orange LEDs, providing a light output of over 300 lumens.
- ✓ A high-performance sounder driver delivering 85 dB at 1m.
- ✓ The header unit is housed using an upcycled mechanical enclosure suitable for the highways environment.

YEAR ROUND BATTERY AUTONOMY*



PART NUMBER FOR HEADER UNIT: A800151

*Subject to > 1 hour ESH per day

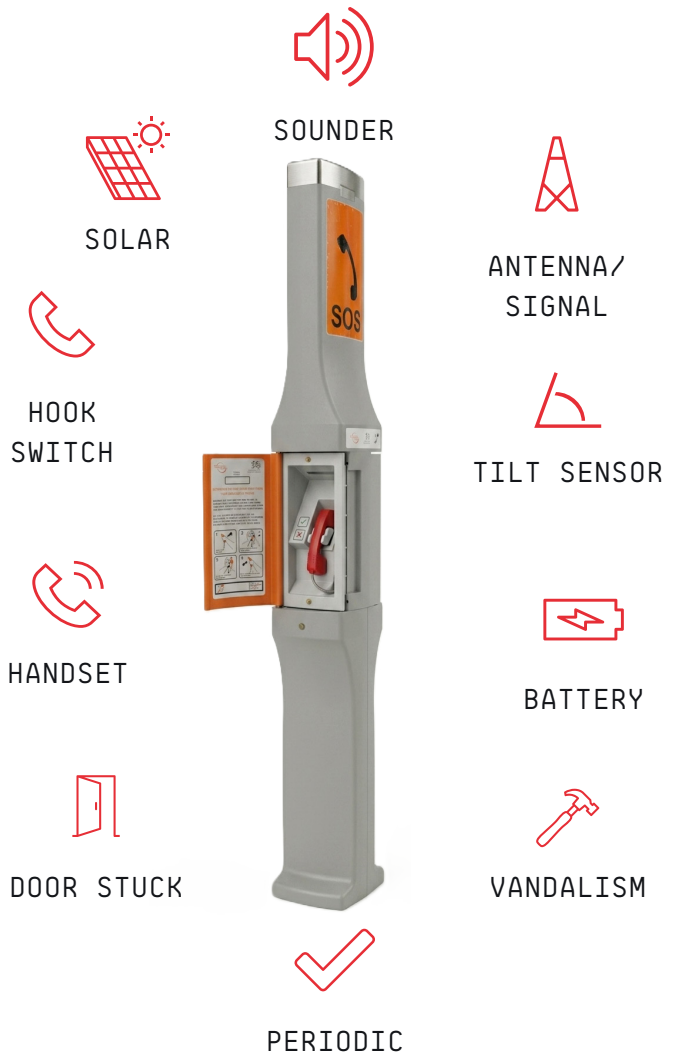
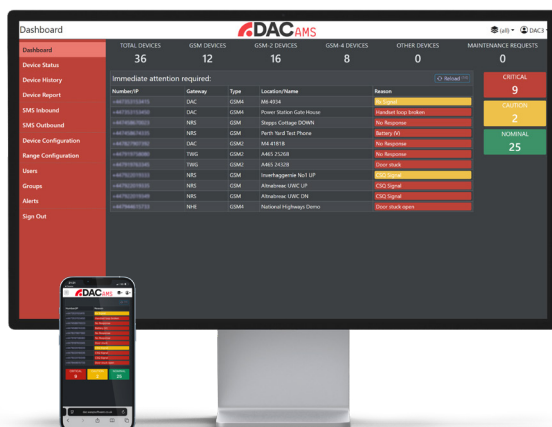
ASSET MANAGEMENT SOFTWARE (AMS)

AMS uses real-time data to support preventative and predictive asset maintenance, allowing operators to identify potential failures before they occur. This reduces unnecessary roadside visits, lowers costs, and helps minimise the carbon footprint.

Key Benefits:

- ✓ **Usage Data Monitoring:** monitor signal strength, usage and trends of devices remotely from an online dashboard.
- ✓ **Immediate Fault Notification:** receive instant, event driven alerts from device.
- ✓ **Preventative Maintenance:** identify component degradation before a failure occurs reducing downtime.

For more info on AMS please contact sales@daclimited.co.uk



WHEN COMMUNICATION IS CRITICAL

DAC design and manufacture ruggedised communication equipment focused on providing unwavering reliability when it matters most.

Our range of products prioritise safety by ensuring critical communications remain clear and dependable, protecting lives and maintaining operations in all arduous and critical environments.

PROUD TO PARTNER



SIEMENS



ALSTOM

BAE SYSTEMS

OTHER EQUIPMENT IN OUR RANGE



PIS-PA TUFF HANDSET

Handset for Passenger Information Systems (PIS) and Passenger Announcement (PA), with customisable connectivity for any train cab.

- ✓ Train cabs
- ✓ Compatible with all vehicle classes
- ✓ Passenger Information

- ✓ Passenger Announcement
- ✓ Guard Operator Panel



GSM-R TUFF HANDSET

A safety critical train cab handset compatible with any class of vehicle, with customisable connectivity for any train cab application

- ✓ Train Cabs
- ✓ Compatible with all vehicle classes

- ✓ GSM-R: Global System for Mobile - Railway



RA708 RUGGIDISED TELEPHONE

Fully-contained telephone within a corrosion-resistant weatherproof case. Can be installed without direct access to a power source or network. Available as VoIP, GSM or Analogue.

- ✓ Track Side
- ✓ Road Side
- ✓ Military & Defence
- ✓ Public Services

- ✓ Oil & Gas
- ✓ Energy Generation
- ✓ VoIP, GSM, Analogue



RA711 HANDSFREE RUGGIDISED TELEPHONE

Handsfree rugged telephone for use where customers experience loss through vandalism. Available as VoIP, GSM or Analogue.

- ✓ Train Station
- ✓ Airports
- ✓ Help Points

- ✓ Prisons
- ✓ Public Services
- ✓ VoIP, GSM, Analogue



INDUSTRIAL HEADSET

EN352-approved hearing defence with comms and market leading passive attenuation. Interface to any PMR radio with clear and dependable communications.

- ✓ Construction
- ✓ Motorsport
- ✓ Energy Generation
- ✓ Military & Defence

- ✓ Cameraman / TV
- ✓ Warehouse
- ✓ Airport



ASSET MANAGEMENT SOFTWARE (AMS)

Cloud based Asset Management Software for use on PC, tablet or mobile. Compatible with all DAC GSM and VoIP products – keeping a close eye on asset performance and availability.

- ✓ Periodic Reporting
- ✓ Data Collation
- ✓ Remote Maintenance

- ✓ Preventative Maintenance
- ✓ Cloud Based
- ✓ PC, Mobile, Tablet



DESIGNED & MANUFACTURED IN THE UK. **INSTALLED ACROSS THE WORLD.**

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