

2 C 7 0 8

WEATHERPROOF  
TELEPHONES

S E R I E S



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R A C A L A C O U S T I C S

**2C708 SERIES FEATURES****ALL WEATHER PROTECTION****ROBUST CONSTRUCTION****AUTO DTMF/LOOP, MAGNETO OR C.B. OPERATION****BATTERY OR LINE POWERED****HIGHLY RELIABLE OPERATION**

2C708 series – designed to provide full protection against all adverse climatic conditions.

**STANDARD FACILITIES**

The telephone instruments are fully contained within a cast aluminium weatherproof case. The electronic sub-compartment is fully protected against dust and moisture ingress to BS 5490: 1977 IP55. The case is fitted with a front opening, side hinged door. A special dust and moisture guard is fitted around the perimeter of this door, to further protect the interior, when closed. Provision is made for a padlock to be fitted to provide protection against vandalism and unauthorised use.

The Racal Acoustics Weatherproof Telephones can be either pole or wall mounted, without dis-assembly of the unit. Electrical cable connections are brought in through a standard conduit entry gland in the base of the unit.

Environmental protection is not simply limited to the case and electronics but is also a feature of the handset to ensure full weatherproof protection when in use.

**STANDARD CONFIGURATIONS**

**2C708/1** Auto DTMF/Loop pulse unit. For use with multi-frequency exchange systems; switchable for use with loop pulse systems.

**2C708/2** One line magneto unit. For use in either point to point standalone systems or in conjunction with magneto switchboard controlled systems.

**2C708/3** C.B. unit. For signal box, trackside and roadside calling applications.

**2C708/4** As 2C708/1 but with memory dial (ten number – 18 digit maximum).

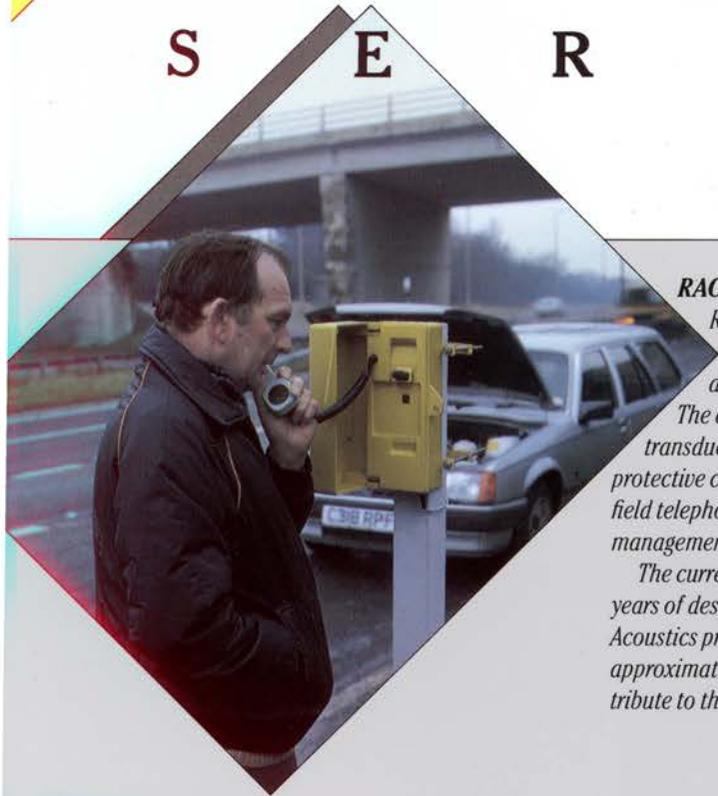
Audio communications today are expanding as rapidly as at any time in their history. With this expansion is the increasing need for good and reliable communications in harsh environments covering adverse weather conditions associated with today's industrial sites.

Telephones are required which can withstand dust or moisture ingress for use in such areas as railside, roadside, garage forecourts, mines/tunnels, military ranges, airfields, loading bays, marinas, taxi ranks, excavation sites, storage silos and many more. In many locations these telephones are provided for emergency use which further emphasises the need for high reliability.

To meet these demanding needs Racal Acoustics have developed a new range of weatherproof telephones.



# S E R I E S



## **RACAL ACOUSTICS**

*Racal Acoustics is a leading European designer and manufacturer of military and professional communications products.*

*The comprehensive product range includes transducers, microphones, handsets, headsets, protective communications helmets, intercom systems, field telephones, and on-board train and aircraft audio management systems.*

*The current product range has evolved from over 60 years of design and production experience. Racal Acoustics products are now in regular use in approximately 140 countries throughout the World – a tribute to their quality and reliability.*



## **OPTIONAL EXTRAS**

# Remote audible alarm.

# Up to two visual indicators can be fitted, depending on equipment type:

Visual call indicator.

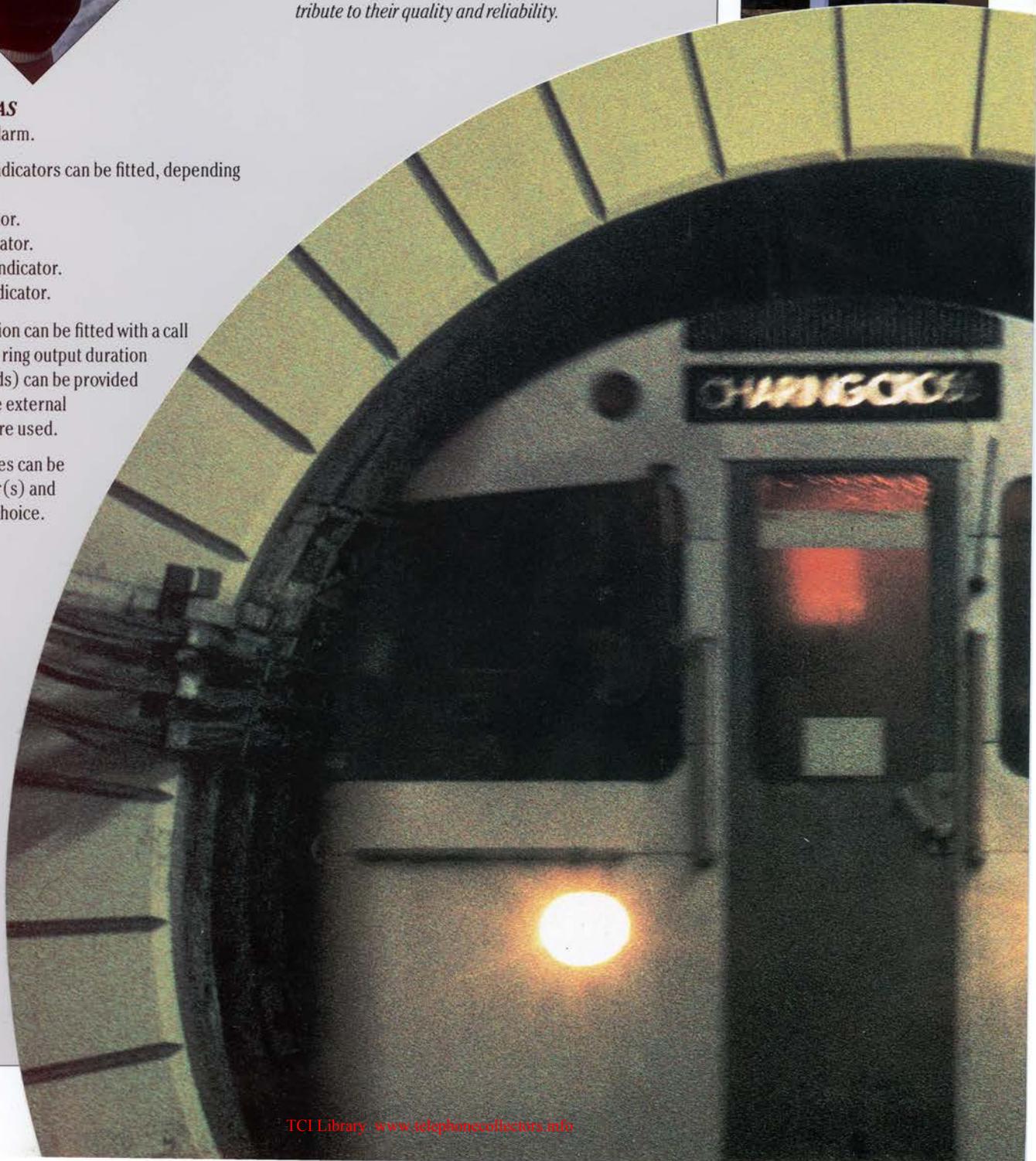
Line looped indicator.

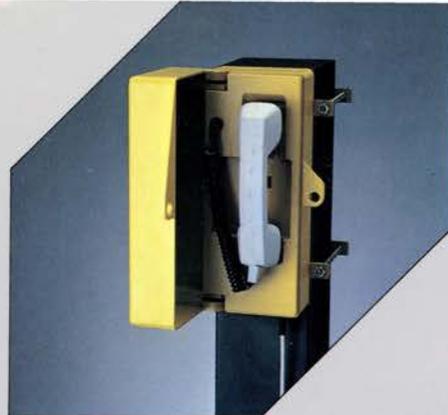
Magneto output indicator.

Battery/power indicator.

# The magneto version can be fitted with a call alarm latch circuit. A ring output duration limiter (1 to 2 seconds) can be provided to save power, where external 6V battery supplies are used.

# Weatherproof cases can be painted to any colour(s) and finish of the user's choice.





## TECHNICAL SPECIFICATIONS

<b>Power supplies</b>	Auto and C.B. versions – line powered, 15mA min. Magneto versions – external 6V d.c. at 800 mA max.
<b>Line impedance</b>	600 Ohms as per BS 6305
<b>Line levels</b>	Speech and DTMF Tone Levels as per CCITT and BS 6305/BS 6317
<b>Off-hook loop (Auto/C.B. only)</b>	Electronic to BS 6305:1982 para 4.3
<b>Keypad dialler (Auto only)</b>	3×4 standard set legends, marked '0' to '9', '*', '#'; and 'R'
<b>Magneto ringer O/P (Magneto versions only)</b>	20-25 Hz, 60 Vrms into 1.5k Ohms
<b>Audible caller (Not 2C708/3)</b>	Piezo transducer, frequency modulated, Cadence as per incoming ringing REN 1.0
<b>Transmission range</b>	Auto and C.B. versions – typically 7.5 km max. (50V), depending on exchange feed voltage. Magneto versions – typically 30 km max, depending on type of wire used.

## ENVIRONMENTAL

<b>Temperature</b>	Storage –40°C to +70°C. Operational –30°C to +70°C.
<b>Relative Humidity</b>	Up to 95%.
<b>Electronics</b>	Conformal coated, polyurethane varnish.
<b>Sealing</b>	Dust and liquids to BS 5490:1977 IP55.
<b>Handset 'wrench test'</b>	18Kg maximum.
<b>Safety</b>	Conforms to BS 6301. Withstands 60V longitudinal, in use. Withstands 430V longitudinal, for 200 ms, under fault conditions. Protected externally against lightning surges. Case to line (and electronics) isolation proof to 3.75 kV.
<b>Reliability</b>	MTFB 15,000 hrs.

Full technical specifications for all types of Weatherproof Telephones are available on request.

The 2C708/1 and 2C708/4 are designed to meet relevant BT specifications.

**APPROVED** for connection to telecommunication systems specified in the instructions for use subject to the conditions set out in them.

**S/3064/3/H/452766**

Authorized Distributor

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**RACAL**

The Racal Acoustics policy is one of continuous development and consequently the equipment may vary from the description and specification in this publication.

