

Specification for

Circular electronic tachographs for road vehicles

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Automobile Standards Policy Committee (AUE/-) to Technical Committee AUE/9, upon which the following bodies were represented:

- Automobile Association
- British Telecommunications plc
- Consumer Policy Committee of BSI
- Department of Trade and Industry (Consumer Safety Unit, CA Division)
- Department of Transport
- Garage Equipment Association
- Institute of Trading Standards Administration
- Motor Agents Association Limited
- Royal Automobile Club
- Society of Motor Manufacturers and Traders Limited

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Foreword

This British Standard has been prepared, under the direction of the Automobile Standards Policy Committee, at the request of the Society of Motor Manufacturers and Traders, and is based on SMMT information sheet No. EE-14H Electronic Tachographs. Some features have been excluded to allow for special installations and to permit future developments.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 12 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This British Standard specifies overall mounting and installation dimensions, and certain electrical connections and signals for circular electronic tachographs.

2 Definition

For the purposes of this British Standard the following definition applies.

tachograph

an instrument which displays and records speed and distance and meets the requirements of EEC Regulation 1463/70 Annex 1 and/or EEC Regulation 3821/85 Annex 1

3 Mechanical features

3.1 General

The tachograph shall have connectors at the rear and a calibration facility accessible without removal of the instrument from its mounting, e.g. by means of a hinged door. The tachograph shall be circular in shape.

3.2 Dimensions

Dimensions shall be as given in Figure 1 for the following items:

- a) body diameter, A ;
- b) bezel diameter:
 - 1) at mounting face, B_1 ;
 - 2) at connector insertion face, B_2 ;
- c) body height above mounting face, C ;
- d) bezel depth behind mounting face, including connectors and sealing device(s), D ;
- e) hinge to top edge of body, E ;
- f) trim panel clearance hold, F .

4 Electrical features

4.1 General

Four connectors shall be fitted at the rear of the tachograph to provide the electrical interface.

4.2 Connector pin assignments

The functions assigned to pins shall be as given in Table 1.

NOTE 1 For connections without an assignment, i.e. unallocated pins, the preferred function is indicated.

NOTE 2 Each dash in Table 1 represents a switch selection point which is not occupied within the standard bank of 11 switch point units.

4.3 Input signal

The input signal frequency range shall be 2 400 to 24 659 pulses/km.

4.4 Calibration

There shall be 10 switches provided, for purposes of calibration.

NOTE See Table 2 for details of switch settings.

4.5 Auto power standby (where fitted)

After having received no input signal for a period of 48 h the instrument shall switch to low power mode. It shall reset automatically on receipt of the input signal.

4.6 Serial data link

Facilities for a serial data link shall be incorporated.

NOTE No universally accepted standard relating to a serial data link is yet available.

5 Functional assignments of connector pins

The functional assignments of connector pins shall be as listed in Table 1.

