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Údarás um Chaighdeán Náisiúnta na hÉireann

IRISH STANDARD

**I.S. EN 12645:1999**

ICS 17.100  
43.180  
83.160.10

**PRESSURE GAUGES - APPARATUS FOR  
INSPECTION OF PRESSURE AND/OR  
INFLATION OF TYRES FOR MOTOR  
VEHICLES - METROLOGY, REQUIREMENTS  
AND TESTING**

National Standards  
Authority of Ireland  
Northwood, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

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EUROPEAN STANDARD

**EN 12645**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1998

ICS 17.100; 43.180; 83.160.10

Descriptors: road vehicles, pneumatic tyres, pressure measurements, manometers, measuring instruments, indicating instruments, metrological inspection, specifications, errors, tests, marking

English version

## Pressure gauges - Apparatus for inspection of pressure and/or inflation of tyres for motor vehicles - Metrology, requirements and testing

Manomètres - Appareils de contrôle de la pression et/ou de gonflage des pneumatiques des véhicules automobiles -  
Métrologie, exigences et essais

Druckmeßgeräte - Anlagen zum Prüfen des Druckes und/oder zum Füllen von Reifen an Kraftfahrzeugen -  
Meßtechnik, Anforderungen und Prüfung

This European Standard was approved by CEN on 24 August 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

<b>Contents</b>	<b>Page</b>
<b>Foreword .....</b>	<b>3</b>
<b>1 Scope .....</b>	<b>3</b>
<b>2 Normative references .....</b>	<b>4</b>
<b>3 Definitions .....</b>	<b>5</b>
<b>4 Metrological requirements .....</b>	<b>6</b>
<b>5 Technical requirements .....</b>	<b>7</b>
<b>6 Inscriptions and marking .....</b>	<b>9</b>
<b>7 Verification of compliance with technical and metrological requirements .....</b>	<b>10</b>
<b>Annex A (informative) Requirements and testing of type A, B, C and D apparatus.....</b>	<b>13</b>
<b>Annex B (informative) Bibliography .....</b>	<b>14</b>

## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 141 "Pressure gauges - Thermometers - Means of measuring and/or recording temperature in the cold chain", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 1999, and conflicting national standards shall be withdrawn at the latest by March 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This European standard defines requirements of pressure gauges for inflation of tyre and their testing in accordance with 86/217/EEC Directive.

It establishes in the context of motor vehicles tyres, the minimum characteristics of the chain of measurement of mechanical apparatus intended to increase, inspect or adjust the pressure of tyres inflated by air or nitrogen.

This apparatus classified in four different categories are hereinafter referred to by generic term, "pressure gauges".

This chain of measurement consists of all the elements between the tyre valve and the display device (connector, hose, control device, measurement components, etc.).

They indicate the pressure difference ( $P_e$ ) between the air or the nitrogen in the tyre and the atmosphere.

The field of application established above can be extended to other applications where no specific standard exists.

## 2 Normative references

**This European Standard** incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to **this European Standard** only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 837-1	Pressure gauges - Part 1 : Bourdon tube pressure gauges - Dimensions, metrology, requirements and testing
EN 837-3	Pressure gauges - Part 3 : Diaphragm and capsule pressure gauges - Dimensions, metrology, requirements and testing
EN 60068-2-32	Basic environmental testing procedures - Part 2 : Tests - Test Ed : Free fall.
EN 60529	Degrees of protection provided by enclosures (IP code).
IEC 68-2-11	Basic environmental testing procedures - Test methods - Test Ka : Salt mist.
IEC 68-2-30	Basic environmental testing procedures - Test methods - Test Db and guidance : Damp heat cyclic test (12 + 12 hours cycle).

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