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Information Technology - Screen icons and symbols for personal mobile communication devices

Élément introductif — Élément principal — Partie n: Titre de la partie

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO/IEC 24755 was prepared by Technical Committee ISO/IEC JTC 1, Subcommittee SC 35, User Interfaces.

Introduction

Screen icons and symbols for personal mobile communication devices enable users to decide on the suitability of following associated services or functionality. Information provided by these icons and symbols may also be made available via text.

The icons in this international standard have been selected to be intended for use only for mobile communication devices. The icon and symbol graphics included in ISO/IEC 24755 have been selected on the basis of their ability to convey the desired information to a wide audience of users. Wherever available, icons are used from ISO/IEC11581-2, 3 and 6.

Information Technology — Screen icons and symbols for personal mobile communication devices

1 Scope

This international standard defines a consistent set of screen icons and symbols – together with their related functions – that are presented by personal mobile communications devices (e.g. mobile phones and personal digital assistants). Those devices have an accessible touch screen by stylus pen or finger, or button access with personalized application, that users interact with to control the information presented by these devices.

This international standard provides a consistent set of icon graphics for performing personal information management-related applications and controlling the device. These icons and symbols represent typical functions and statuses by their association with conventional controls and functions on real world objects.

This international standard applies to all icon graphics displayed with 32 x 32 pixels or higher resolution. The graphic presentation can either be dynamic or fixed.

2 Conformance

Operating system, application software and their resource file for the entire personal mobile communication device conforms to ISO/IEC 24755 if all icons / symbols available to the user in the system or application conform to clauses 5 and 6 of this international standard and clause 5 and sub clause 6.1 of ISO/IEC 11581-1.

3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 11581-1:2000, *Information technology - User system interfaces and symbols - Icon symbols and functions - Part 1: Icons - general*

ISO/IEC 11581-2:2000, *Information technology - User system interfaces and symbols - Icon symbols and functions - Part 2: Object Icons*

ISO/IEC 11581-3:2000, *Information technology - User system interfaces and symbols - Icon symbols and functions - Part 3: Pointer icons*

4 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 11581-1:2000 and the following apply.

4.1 identifier

to internally define (e.g. with XML) the icons and symbols. The internal identifier within this international standard is tentatively set to use two capital letters, G (i.e. an initial of Graphics) and M (i.e. an initial of Mobile), followed by an ordering number of three digits.

4.2 label

used to provide language-based information to supplement the icon display.

4.3 reference

may be used to provide information for the related existing international standard as a reference.

4.4 specific variations

may be used to adapt a particular icon to specific design styles while retaining its essential perceptual characteristics. Additional information is provided for arranging and modifying graphics to meet the resolution restriction.

4.5 status indicator

graphic symbol that represents a state within the system.

NOTE: Status indicators assist a mobile device user to confirm some system setting state without accessing the system settings. They are dynamically updated only when the state changes in real-time. Users are not able to use the status indicator to control the change.

EXAMPLE 1: A status indicator is used to show that vibration is set in a cellular phone instead of sounds to indicate ringing or alert.

EXAMPLE 2: A status indicator is used to show the remaining battery charge of a personal data assistant (PDA).

4.6 status variations

variations of a graphic symbol that represent different states. When one particular state is selected manually or automatically, then one variation is displayed.

5 Requirements and recommendations

5.1 Requirements

5.1.1 Graphic and function

If an interactive system or application of a personal mobile communication device uses an icon or a symbol that has the appearance of the icon/symbol graphic specified in clause 6 of this international standard, it shall serve the functions specified in clause 6 of this international standard. The specific and the global variations specified in "ISO/IEC 11581-1:2000, 6.3" apply.

5.1.2 Identification

5.1.2.1 Internal Identifier

All icons and symbols shall be implemented with an internal identifier of the graphic object.

Note: This identifier can be used by text-based output devices (e.g. text-only screens, screen readers, Braille output device).

5.1.2.2 Identifiers specified in this international standard

All icons and symbols specified in this international standard shall be implemented with the internal identifiers specified in this international standard.

5.1.2.3 Identifiers for other icons and symbols

Icons and symbols not specified in this international standard shall be implemented with the internal identifiers specified by the developer.

5.1.2.4 Unique identifiers for other icons and symbols

Developer specified internal identifiers shall not be the same as identifiers specified in this international standard.

5.1.2.5 Labels

If a label is used with an icon to clarify its meaning, it shall be provided in the language of the user.

5.1.2.6 Labels identified in this international standard

When English language labels are used for icons or symbols identified in this international standard, they shall be the labels identified in this international standard.

5.1.2.7 Labels in other languages

Labels for use in other languages may be specified in appropriate national standards.

5.1.2.8 User control of labels

The user shall be able to control:

- a) whether or not labels are displayed with icons
- b) the language of displayed labels
- c) the positioning of the label relative to the icon

5.1.2.9 Selection

Selection of a label shall have the same result as selecting the icon or symbol. Selection shall be in accordance with "ISO/IEC 11581-3:2000, 5.2".

5.2 Recommendations

5.2.1 Function and graphic

If an interactive system or application of a personal mobile communication device uses an icon or a symbol that serves the primary function specified in clause 6 of this international standard, it is highly recommended that it should have the appearance of the icon and symbol graphic specified in clause 6, within the specific variations given and within the global variations specified in clause 6.3 of ISO/IEC 11581-1:2000.

5.2.2 Metaphor

A consistent highlighting or presentation style should be considered which renders the graphic of the icons and symbols sufficiently prominent in comparison with other information on the screen.

5.2.3 Arrangement

There is no specific sequence for arranging these icons and symbols. Where a default sequence is supplied, the user should be provided with a facility to arrange them to their own preference.

5.2.4 Appearance

All icons and symbols of a similar selection status should be a consistent visual strength and style.

5.2.5 Text / Typeface

The use of text inside icons and symbols should be avoided. However, if text is included, plain typefaces should be used. If text is used, it should be used in a manner that supports adaptation for cultural, linguistic and comprehensibility purposes.

6 Icon and symbol specifications

6.1 General

The Icon and symbol specifications in this clause should be used as design templates for the icon / symbol design for personal mobile communication devices and their applications.

Note: A bounded grey cell shows the graphics. The size of the cell and the location of the icon within it are shown for illustration only, and are implementation dependent. While the white inner zone should always be opaque, the grey zone may be either transparent or opaque.

6.1.1 Icon and symbol category and index

Icons and symbols in this document are categorized and ordered as following.

6.2 System setting

6.3 Application Icon

- 6.3.1 Address book application
- 6.3.2 Still picture application
- 6.3.3 Movie application
- 6.3.4 Audio application
- 6.3.5 Television application
- 6.3.6 Web browser application
- 6.3.7 Dictionary application
- 6.3.8 Notebook application
- 6.3.9 Gate to Game applications
- 6.3.10 Scheduler application
- 6.3.11 Mail application

6.4 Device Icon

- 6.4.1 Wireless carrier connection
- 6.4.2 Wireless network connection
- 6.4.3 Keypad locked
- 6.4.4 Data security locked
- 6.4.5 Microphone
- 6.4.6 Vibration
- 6.4.7 Ringing
- 6.4.8 Battery status indicator

6.2 System setting

Icon function: To enable user to individualise and maintain system setting.

Specific instance: A spanner and a driver

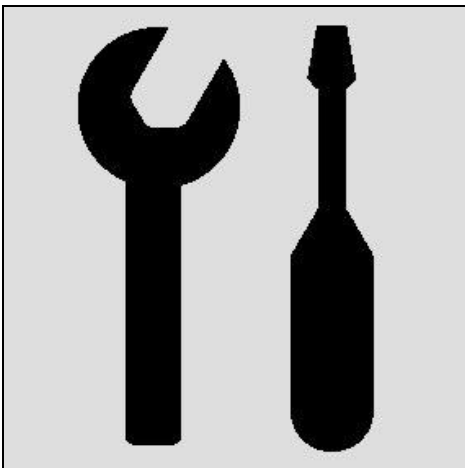
Graphic components:

- Spanner is drawn by a fat perpendicular line unites with the circle scooped out in the line that bends three times.
- The shape combined in a long and slender line and a fat line expresses a driver.
- The point of a long and slender line has extended a little like showing a driver.

Identifier: GM001

Label: System setting

Graphic:



Status variations:

- None at present

Specific variations:

- None at present

Reference:

- None at present

6.3 Application Icon

6.3.1 Address book application

Icon function: To enable the user to access personal address information, including phone, fax and e-mail.

Specific instance: Small human's silhouette over an opened book.

Graphic components:

- "Opened book" is shown in three straight lines in the direction of setting up and lines where it sends and four for curved lines.
- The silhouette of the person who shows in the right bottom, full, and the semicircle is expressed.

Identifier: GM002

Label: Address Book

Graphic:



Status variations:

- None at present

Specific variations:

- Minimum requirement for the graphic component is an opened book.

Reference:

- None at present

6.3.2 Still picture application

Icon functions: To enable the user to take a picture with a camera and/or to view stored images.

Specific instance: Main body of typical single lens reflex camera

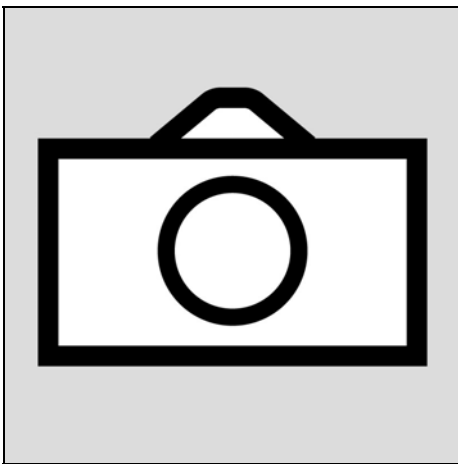
Graphic components:

- A circle inside of a big rectangle.
- A small trapezoid is placed on top of the rectangle.

Identifier: GM003

Label: Still picture

Graphic:

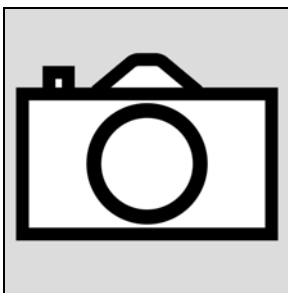


Status variations:

- None at present

Specific variations:

- A shutter button (represented as a small square on top of the camera) may be added.



Reference:

- IEC60417-5885: Still Camera

6.3.3 Movie application

Icon function: To enable the user to take a moving picture with a camera and/or to view stored videos.

Specific instance: traditional movie camera

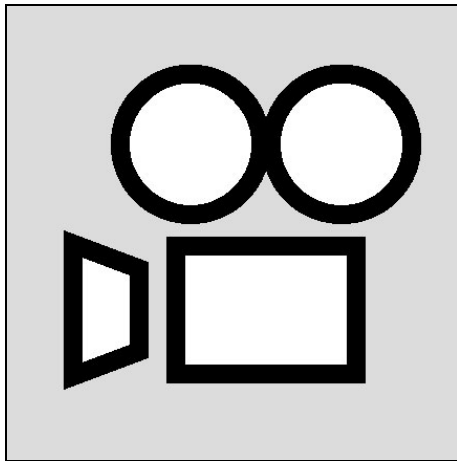
Graphic components:

- Two circles side by side are located above a rectangle.
- A pentagon-shape is located to the left side of the rectangle.

Identifier: GM004

Label: Movie application

Graphic:



Status variations:

- None at present

Specific variations:

- None at present

Reference:

- None at present

6.3.4 Audio application

Icon function: To enable the user to activate an application that works with audio.

Specific instance: A two-beamed eighth notes and a single eighth note.

Graphic components:

- A line and a wave shape connected to a slanted solid oval.
- An interlinked shape with slanted solid ovals and vertical lines that are connected together by one vented line.

Identifier: GM005

Label: Audio application

Graphic:



Status variations:

- None at present

Specific variations:

- None at present

Reference:

- IEC60417-5085; Music

6.3.5 Television application

Icon function: To enable the user to watch television programs.

Specific instance: Human silhouette inside TV set

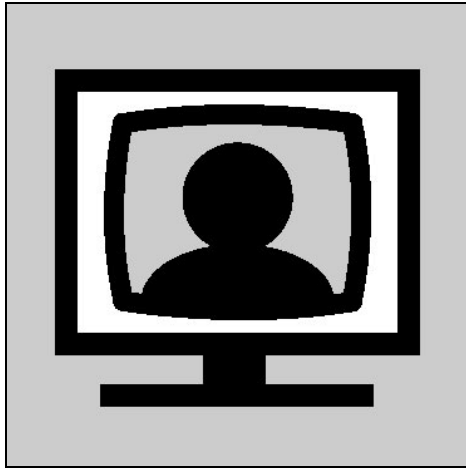
Graphic components:

- A human figure made up of a small filled circle placed on top of a filled vertical half-oval is put into a swelling rectangle.
- The swelling rectangle is placed within a larger rectangle.
- A stand made up of short, fat vertical line and sideways long line is set under the large rectangle.

Identifier: GM006

Label: Television

Graphic:



Status variations:

- None at present

Specific variations:

- A human silhouette and stand may eliminate.

Reference:

- IEC60417-5053: Television receiver
- ISO/IEC 11581-2:2000, 7.2.2.2: Display

6.3.6 Web browser application

Icon function: To enable the user to access a web site or FTP server.

Specific instance: Globe and satellite orbit

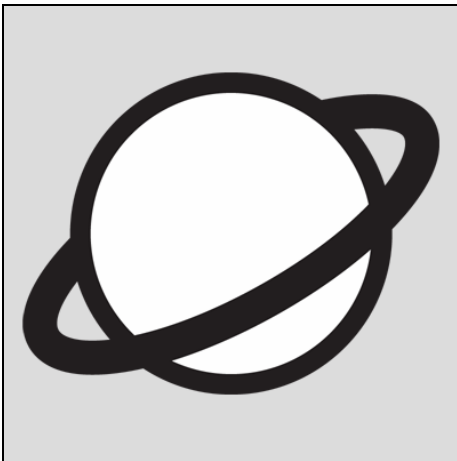
Graphic components:

- A circle
- An ellipse with one side hidden by the circle

Identifier: GM007

Label: Web browser

Graphic:



Status variations:

- None at present

Specific variations:

- None at present

Reference:

- None at present

6.3.7 Dictionary application

Icon function: To enable the user to access a reference book listing alphabetically terms or words important to a particular subject or activity along with discussion of their meanings and applications. Users can also add their own unique terms or words to an individualisable User Dictionary.

Specific instance: Thick book

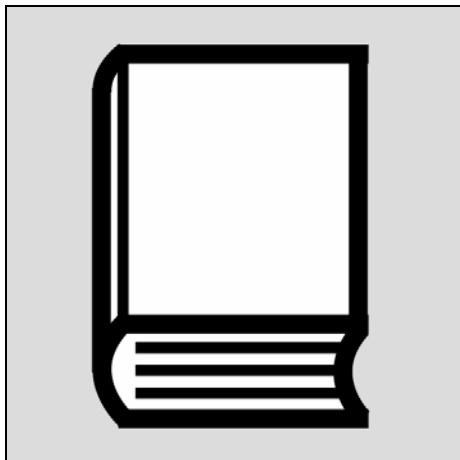
Graphic components:

- The cover of the book is made up of a rectangle with a thin left-hand edge.
- A line parallel to the bottom of the square, connected by arcs on each end contains three parallel evenly spaced lines touching the right-hand arc.
- The spine is made up of the left-hand edge of the rectangle and a parallel thicker line to its left connected on each end by arcs.

Identifier: GM008

Label: Dictionary

Graphic:



Status variations:

- None at present

Specific variations:

- None at present

Reference:

- None at present

6.3.8 Notebook application

Icon function: To enable the user to work on abstract paper to record, edit, or view information.

Specific instance: A pencil and sheet of paper.

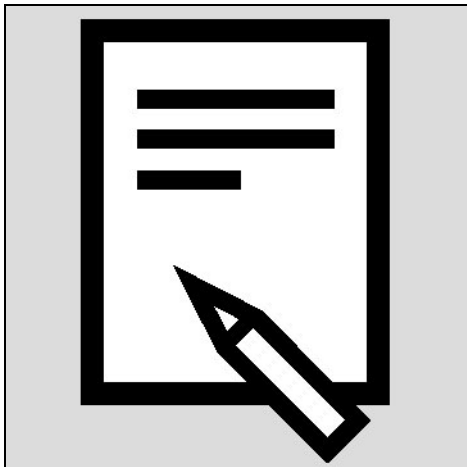
Graphic components:

- A rectangle with three lines and a pencil inside.
- Three lines are inside the upper portion of the rectangle, and the last line is shorter than the others.
- The pencil is located across the lower portion of the rectangle, pointing inside the rectangle.

Identifier: GM009

Label: Notebook

Graphic:

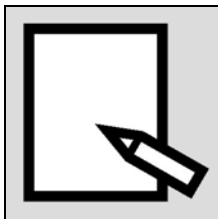


Status variations:

- None at present

Specific variations:

- The orientation of the lines may vary.
- The lines may be omitted.
- The orientation of the pencil may vary.



Reference:

- None at present

6.3.9 Gate to Game applications

Icon function: To enable the user to choose an electronic game to play.

Specific instance: A playing card, and a die.

Graphic components:

- A cubic diagram with three surfaces. There are 1 dot on top surface, 3 dots on the left surface and 5 dots on the right surface.
- A large rectangle with rounded corners surrounds a smaller rectangle with rounded corners which contains a spade.

Identifier: GM010

Label: Game

Graphic:



Status variations:

- None at present

Specific variations:

- None at present

Reference:

- None at present

6.3.10 Scheduler application

Icon function: To enables the user to manage their schedules, such as making action plans or appointments, as well as setting an alarm to each scheduled item.

Specific instance: calendar and a pencil

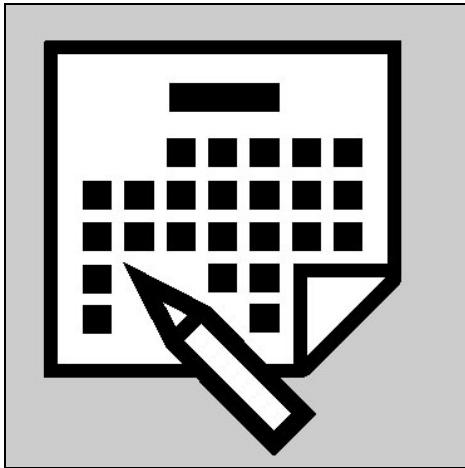
Graphic components:

- Calendar body. A rectangular lower right corner is turned, and an inside triangle is formed.
- The month is shown in the bold line, and the day is shown in 24 small squares.
- To connect with a long and slender rectangle and the rectangular short vicinity, isosceles triangles are combined.
- The combination figure has inclined at the right a little than the horizontal, and is put over the calendar body.

Identifier: GM011

Label: Scheduler

Graphic:

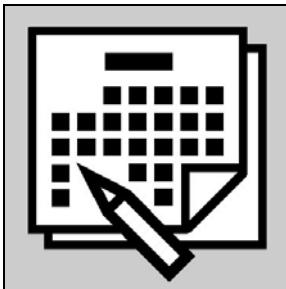


Status variations:

- None at present

Specific variations:

- The position and orientation of the pencil may vary.
- A second page may be positioned under the top page.



Reference:

- ISO/IEC 11581-2:2000, 7.2.1.1: Calendar

6.3.11 Mail application

Icon function: To activate mail application. The term mail indicates generic asynchronous communication including text, voice, and picture and movie message.

Specific instance: An envelope graphics.

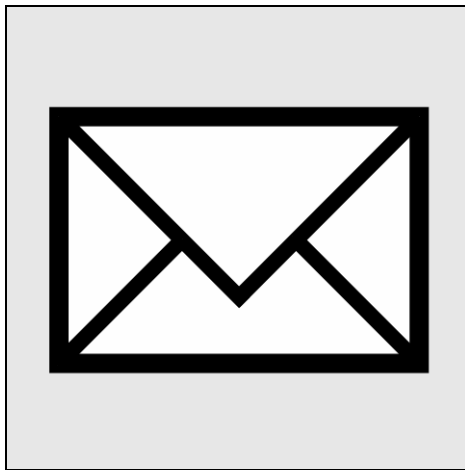
Graphic components:

- Envelope. Rectangle with height less than width.
- Top flap. Triangle, folded down from top of envelope. Lower flap.
- Two diagonal lines from lower corners to centre beneath top flap.

Identifier: GM012

Label: Mail

Graphic:



Status variations:

- When message is received, an exclamation symbol is put over the top of envelope.



- Different kinds of mail, e.g. multimedia or simple text message, may be specified by additional symbols.

Specific variations:

- None at present

Reference:

- ISO/IEC 11581-2:2000, 7.1.4.1: Envelope

6.4 Device Icon

6.4.1 Wireless carrier connection

Icon function: To show the strength of the wireless signal when it connects to the carrier connection. There are five states: very strong, strong, weak, very weak or not detected.

NOTE: The icon can change dynamically to represent the current signal strengths.

Specific instance: An antenna

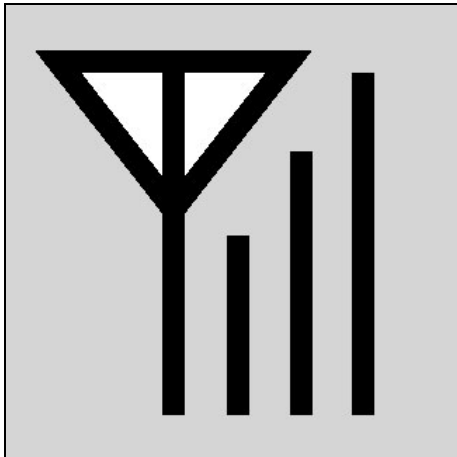
Graphic components:

- An antenna symbol made by a reversed triangle and a vertical line connected together.
- Three lines of different length: no lines for GM013-4, 1 line for GM013-3, 2 lines for GM0013-2 and 3 lines for GM013-1
- A diagonal line from top left to bottom right overlaps the figure of GM013-4 (for GM013-5).

Identifier: GM013-1, GM013-2, GM013-3, GM013-4 and GM013-5

Label: Wireless carrier connection very strong, Wireless carrier connection strong, Wireless carrier connection weak, Wireless carrier connection very weak and Wireless carrier connection not detected

Graphic:

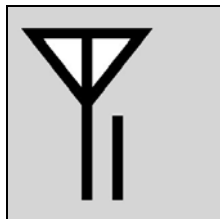


GM013-1: very strong

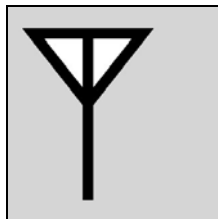
Status variations:



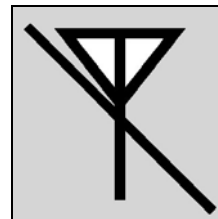
GM013-2: strong



GM013-3: weak



GM013-4: very weak



GM13-5: not detected

Specific variations:

- None at present

Reference:

- IEC60471-5039: Aerial

6.4.2 Wireless network connection

Icon function: To show strength of the wireless signal when it connects to the network. There are five states: very strong, strong, weak, very weak or not detected.

NOTE: The icon can change dynamically to represent the current signal strengths.

Specific instance: An antenna

Graphic components:

- The line that has been postponed toward the centre connects from the vicinity in the under and the centre connects it to a small circle at the centre. (for GM014-4)
- There is one line on the circular arc right and left about the circle at the centre of GM014-4. (for GM014-3)
- There are two lines on the circular arc right and left about the circle at the centre of GM014-4. The outside of lines two circular arcs is longer. (for GM014-2)
- There are three lines on the circular arc right and left about the circle at the centre of GM014-4. The outside of lines three circular arcs is longer. (for GM014-1)
- One line that inclines at 45 times left overlaps the figure of GM014-4 (for GM014-5).

Identifier: GM014-1, GM014-2, GM014-3, GM014-4 and GM014-5

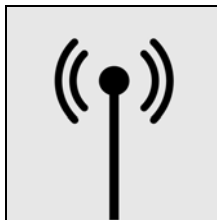
Label: Wireless network connection very strong, Wireless network connection strong, Wireless network connection weak, Wireless network connection very weak and Wireless network connection not detected

Graphic:

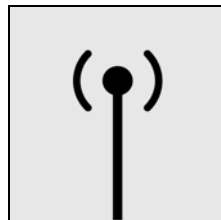


GM014-1: very strong

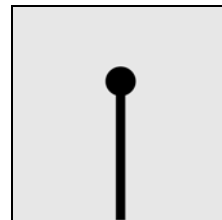
Status variations:



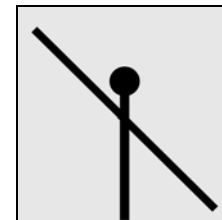
GM014-2: strong



GM014-3: weak



GM014-4: very weak



GM014-5: not detected

Specific variations:

- None at present

Reference:

- None at present

6.4.3 Keypad locked

Icon function: To show the user that the keypad cannot be used. This icon is only visible when the keypad is locked. Selecting this icon activates the protocol to unlock the keypad.

Specific instance: A keyboard and a padlock

Graphic components:

- Case. Rectangle with the height less than the width.
- Keys. Array of 12 squares, 1 long black rectangle and 4 half-squares.
- A padlock: A keyhole shape inside of a rectangle with a semi-circle on top

Identifier: GM015-1 and GM015-2

Label: Keypad locked and keypad unlock

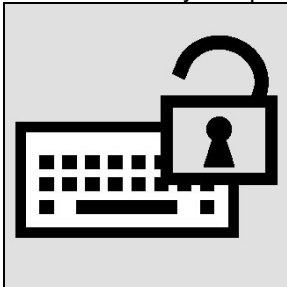
Graphic:



GM015-1: locked

Status variations:

- Unlock state may be specified.



GM015-2: unlocked

Specific variations:

- None at present

Reference:

- ISO/IEC 11581-2:2000, 7.2.2.3: Keyboard

6.4.4 Data security locked

Icon function: To show the user that the database is protected. There are two states: locked and unlocked.

Specific instance: Padlock

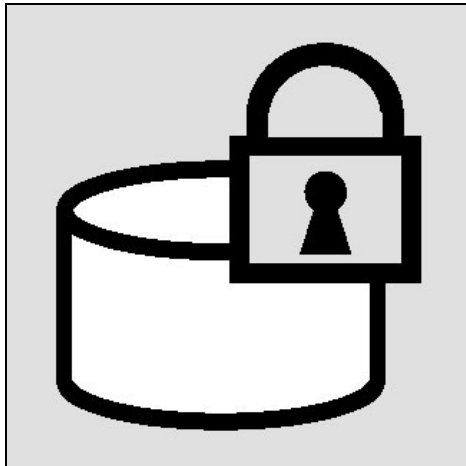
Graphic components:

- A database; is expressed by 2 perpendicular lines connected with the oval and one curves.
- A padlock; is expressed with a keyhole shape inside of a rectangle with a semi-circle on top
- The padlock is put upper part of the database figure.

Identifier: GM016-1 and GM016-2

Label: Data security locked, Data security unlocked

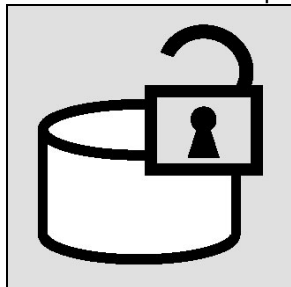
Graphic:



GM016-1: locked

Status variations:

- Unlock state of the data security lock may be specified as to change only the upper part and the left side of Semi-circle lift up.



GM016-2: unlocked

Specific variations:

- None at present

Reference:

- None at present

6.4.5 Microphone

Icon function: To show the microphone's state.

Specific instance: A microphone

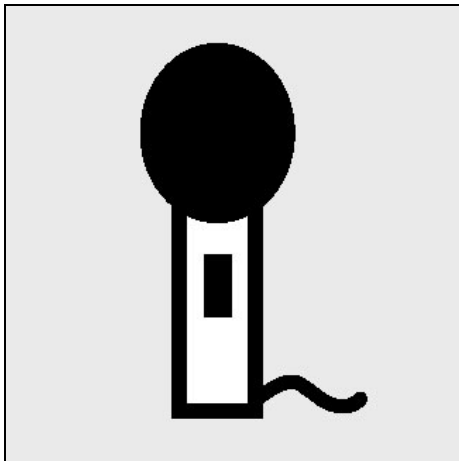
Graphic components:

- A black oval at the top.
- Two vertical lines drawn to the bottom and connected by a short horizontal line such that it resembles a longer than is wide rectangle.
- A small solid rectangle inside of the larger rectangle.
- A wave shape leading out from the larger rectangle towards the right.

Identifier: GM017-1 and GM017-2

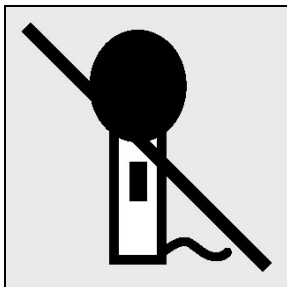
Label: Microphone on, Microphone off

Graphic:



GM017-1: Microphone on

Status variations:



GM017-2: Microphone off

Specific variations:

- None at present

Reference:

- None at present

6.4.6 Vibration

Icon function: To show that the setting of vibration is on. The vibration will activate to notify the user that an e-mail or telephone call has been received.

Specific instance: Vibration wave

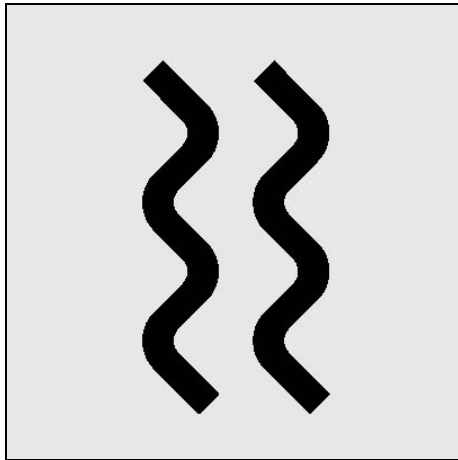
Graphic components:

- Two portrait lines that bend four times queue up. The corner has been roundly.

Identifier: GM018-1, GM018-2, GM018-3 and GM018-4

Label: Inactive when vibration on, Inactive when vibration off, Active when vibration off and Active when vibration on

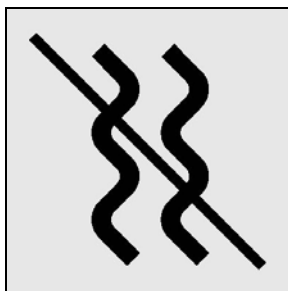
Graphic:



GM018-1: Inactive when vibration on

Status variations:

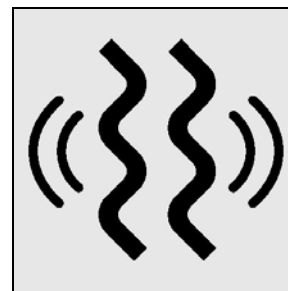
- There are two states, e.g. active and inactive, when both on and off states. It is preferable to accentuate when it activated regardless of on / off states, by additional indication such as flashing of screen, showing dialog box or enlarge the icon.



GM018-2: Inactive when vibration off



GM018-3: Active when vibration off



GM018-4: Active when vibration on

Specific variations:

- None at present

Reference:

- None at present

6.4.7 Ringing

Icon function: To show the setting of the ring tone. There are two states: on and off.

Specific instance: A ringing bell.

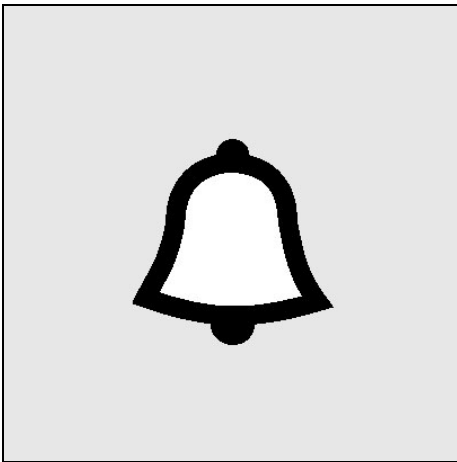
Graphic components:

- Bell shape with two round convex shapes at the top and bottom
- There is a small curve in the inside right and left. There is a large curve in the outside right and left. The curves queue up symmetrically around the bell (for GM019-1).
- Two long lines that intersect at the centre overlap the figure of GM019-1 (for GM019-2).

Identifier: GM019-1, GM019-2, GM019-3 and GM019-4

Label: Inactive when ringing on, Inactive when ringing off, Active when ringing off, and Active when ringing on

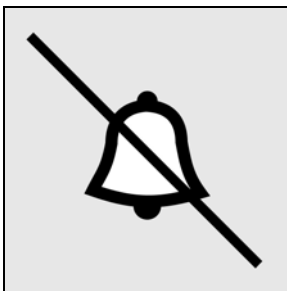
Graphic:



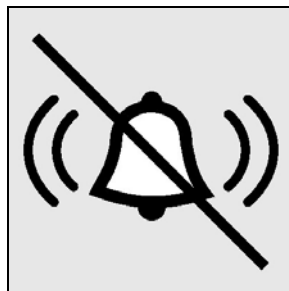
GM019-1: Inactive when ringing on

Status variations:

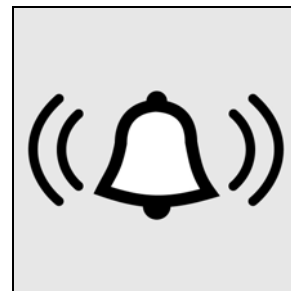
- There are two states, e.g. active and inactive, when both on and off states. It is preferable to accentuate when it activated regardless of on / off states, by additional indication such as flashing of screen, showing dialog box or enlarge the icon.



GM019-2: Inactive when ringing off



GM019-3: Active when ringing off



GM019-4: Active when ringing on

Specific variations:

- None at present

Reference:

- IEC60417-5013: Bell

6.4.8 Battery status indicator

Icon function: To show the amount of the charge of an internal battery. There are four states: fully charged, charged, weak or empty.

Specific instance: Dry-cell battery.

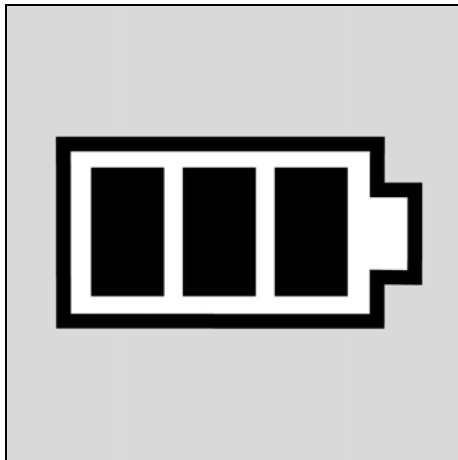
Graphic components:

- Battery body. A big rectangle with an added small bump at the right side and right angle bended two corners outside.
- Three small black solid rectangles inside of the battery body expresses fully charged of battery.

Identifier: GM020-1, GM020-2, GM020-3 and GM020-4

Label: Battery fully charged, Battery charged, Battery weak and Battery empty

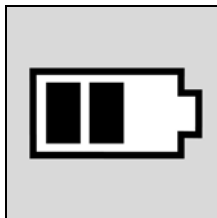
Graphic:



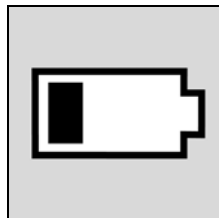
GM020-1: fully charged

Status variations:

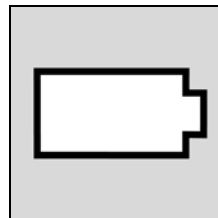
- Level of battery. A small black solid rectangle inside: none for empty, 1 for weak, and 2 for charged.



GM020-2: charged



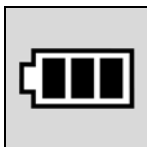
GM020-3: weak



GM020-4: empty

Specific variations:

- It is allowed to use alternative direction, but keep the concept for the status variations.



Reference:

- IEC60417-5001; Battery general, and 5002; Positioning of Cell