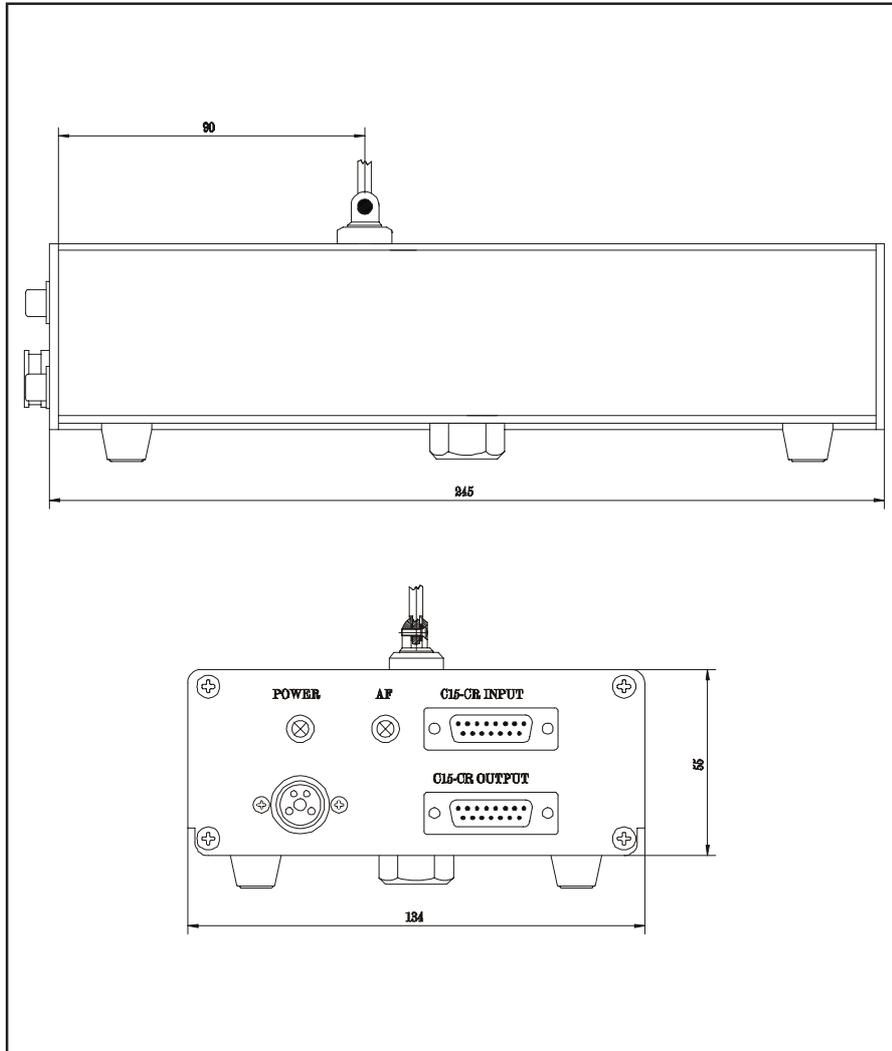


DIGIVOTE®-2000 Transponder

BRÄHLER ICS is committed to continually improving its products and so reserves the right to make technical modifications without notice



Description

Wireless system DIGIVOTE®-2000 has been in existence since 1994. The use of a wireless system means that the shortest possible times can be achieved for setting up and dismantling the setup, even in the largest of rooms. The operational reliability of DIGIVOTE®-2000 is the same as for its wired brother, the well-tried and tested DIGIVOTE®-win, and has extended functions.

DIGIVOTE®-2000 consists of a PC, one transponder and up to 1,250 wireless handsets (extendable) - with or without ChipCards. If ChipCards are used, a card printer is also required, allowing the ChipCards to be printed on in several colours and simultaneously programmed.

The DIGIVOTE®-2000 interactive system

operates worldwide on several specially-reserved operating frequencies and complies with the stringent rules and regulations of the appropriate national telecommunications administrations.

The working range between a particular wireless handset and a transponder is approx. 30 metres. A transponder controls up to 1,250 (4,000) mobile voting units.

By using ChipCards, several delegates may jointly use the same mobile for voting without the voting time necessarily being longer. The coding of the ChipCards guarantees problem-free identification. Thus it is possible to reduce the number of mobile units in use without loss of functionality.

The "reaction time" is defined as the time between the end of the voting period and the moment the results are displayed. This time is significantly affected by the desired level of transmission security, as well as the transmission technology involved. One must at all costs ensure that all votes are taken and evaluated within this time.

The PC provides the possibility of fine tuning delegate unit (delegate group) operations so as to optimize the reaction time.

DIGIVOTE®-2000 transponders are compatible with the Congress Data System® CDS-200 and the DIGIMIC® system. DIGIVOTE®-2000 mobiles can thus be operated together with other voting units.

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Technical Data

Frequency: 433MHZ (Europe)

Range: 30m radius, distribution (destructive interference) depends on ambient reflections

Reaction time:

58 results (with ChipCard) in 1sec

(=1.000 results in 16sec);

64 results (without ChipCard) in 1sec

(=1.000 results in 14sec)

each at 9,600 bps

Power uptake: 150mA

Power supply via additional power supply unit (see "Accessories"): 9V

Connector socket R4, standard R4-DK for hooking up an external power supply unit

Connector socket DB15, standard C15-CR (output), RS485 port for hooking up to the next transponder

Connector socket DB15, standard C15-CR (input), RS485 port for hooking up to the PC

Mounted antenna, Lambda/4, length 156,5mm

Housing: aluminium, anodized

Colour: black

Dimensions: 245x134x64,5mm

Weight: 1050g

Accessories

PCK-200 ChipCard programmer

KLG-200 ChipCard reader

GGP-02 Large display for total results

DIGIVOTE®-2000 operating software: voting (open and secret), name handling

DIGIVOTE®-2000 software: evaluations

DIGIVOTE®-2000 software: multiple choice (open and secret)

DIGIVOTE®-2000 software: opinion polling

DIGIVOTE®-2000 software: for & against

DIGIVOTE®-2000 software: voting results for large displays

AD915 connection cable PC/TR20/*.

C15-connector/C9-connector, 3m

Windows PC with Windows® 95 or 98

VD20/2A DIGIVOTE®-2000 wireless voting unit.

DS-1612 additional power supply unit for power supply with 9V (also 6, 12V)

Tender Specification

The transponder is to form the inter-connection link between the wireless voting unit and the PC.

It is to operate on frequencies reserved on a worldwide basis in compliance with the respective national and international regulations.

The distance between the voting unit and the transponder is to reach to 30m. One transponder is to be capable of operating up to 1,250 (4,000) voting units.

If ChipCards are used together with the voting units, several delegates must be able to share a mobile unit for voting purposes without leading to considerable delays in the voting time needed. Coding of the ChipCards must ensure tamperproof identification of the participants. A reduction in the number of mobile voting units is to be possible without any reduction in the number of available functions.

The reaction time is to be no faster than 58 results per second (using the ChipCard) or, alternatively, 64 results per second (without the ChipCard), each at 9,600bps. The PC is to provide the possibility of fine tuning delegate unit operations so as to optimize the reaction time.

DIGIVOTE®-2000 transponder, model BRÄHLER ICS®, type TR20/1A or equivalent.