

ZETTLER® Personal Identification

Medical® 800 for retirement and nursing homes

Features of ZETTLER® Medical® 800 in summary:

- Personal identification
- Person-specific call forwarding
- Calls triggered wirelessly
- Legacy systems upgraded with star or bus wiring



ZETTLER® Personal Identification

The population is ageing. The number of those who need support and care is rising and will continue to climb in the next few years as well. As the average age increases, so too does the risk that nursing care will be needed. Experts and statistical offices calculate that the number of those needing care will rise by 20 per cent by as early as 2010 and a massive 40 per cent by 2020. This trend will put our healthcare and nursing systems under enormous pressure.

You can benefit from our experience.

Tyco has been the world leader for many years with its ZETTLER® care communications system, Medical® 800. Our new product generation, specially tailored for the requirements of retirement and nursing homes, conforms to the DIN VDE 0834 safety standard and gives you the key advantages of a modern system. Thanks to its modular concept design, ZETTLER® Medical® 800 can be integrated into existing technical infrastructures and remains open for future modifications. We have placed particular emphasis on security, economy and integration into existing structures. Why not see for yourself?

The system

The presence marking of nursing staff in patient's and duty rooms has been par for the course in care organisations for some years now.

Our solution is an enhancement of ZETTLER® Medical® 800 and offers as a key innovation personal identification that opens up an almost unlimited number of possible uses.



Person-specific call forwarding based on defined user profiles offers a whole new level of freedom in the care organisation, with the permanently installed room display becoming your personal pager. The personal care plan can be retrieved, and the care data subsequently logged, right there in the room - on-site and immediately. Personal identification now also enables patients to be uniquely assigned to previously defined nursing staff or teams - case management in its original form.



Integration of the VL Telephone as a fully-featured nurse call speech module of a ZETTLER® Medical® 800 nurse call system conforming to DIN VDE 0834 is not only an elegant solution but also - because of the low financial costs - a particularly attractive option when it comes to upgrading a nurse call system into a communication system. The VL Telephone can be used wherever telephone lines are available.



The system components

The VL Telephone

The VL Telephone has proven its worth many times over as a large-key telephone in retirement and nursing homes in the sheltered housing sector. It offers ease and reliability of operation, even for those suffering from age-related restrictions of motor, visual and acoustic abilities.



The VL Telephone combines the functionality of a fully-integrated nurse call speech module of a ZETTLER®

Medical® 800 nurse call system compliant with DIN VDE 0834 and that of an emergency telephone. Calls triggered by a VL Telephone or VL Wireless pendant are processed by the ZETTLER® Medical® 800 nurse call system. The VL Telephone automatically switches to handsfree mode when the care staff returns the call. The calls can be reset during the voice contact if necessary, saving time and money on calls made by mistake.

The VL Wireless pendant

The VL Wireless pendant is part of the radio emergency call system of the VL Telephone plus. The VL Wireless pendant sends a call wirelessly to the VL Telephone plus or VL Radio receiver. A total of up to 8 VL Wireless pendants can be assigned to one VL Telephone plus or up to 3 VL Wireless pendants can be assigned to one VL Radio receiver. It is also possible to assign all VL Wireless pendants to one VL Telephone plus or/and to one VL Radio receiver. The wireless pendant can be worn on a cord round the neck or as a bracelet, ensuring it is always to hand when needed - in all life situations.



The VL Radio receiver

The VL Radio receiver can receive the call of a VL Wireless pendant or VL Wireless smoke detector and forward it to ZETTLER® Medical® 800. The radio receiver can optionally be assigned



certain wireless pendants to enable unique identification of the caller. The receiver only responds to the calls of these registered wireless pendants, or it forwards calls of all wireless pendants if they are within its range. This function is often used in dining halls or day rooms. A radio receiver is already integrated in the VL Telephone plus.

Presence panel with RFID identification and RFID transponder

At the heart of the new ZETTLER® personal identification system is the call/presence panel with integrated RFID detection. The nurse sets her presence on the presence panel using an RFID tag when entering and leaving a room. To do so the RFID tag is held within the receiving range of the presence panel (distance max. 10 cm). The presence is set and at the same time the system reads the personal code of the RFID tag.

RFID detection is optimised to ensure the easiest possible use, with all activities being signalled both optically and acoustically. In addition to the standard presence of the nursing staff, any other persons can also be registered on the system, e.g. doctors, service engineers, patients and visitors. The particular location of each person can be determined from a central point. The presence can, of course, also be set and cancelled by pressing the presence button as before, if transmission of the personal code is either not desired or is not necessary.



The system components

The VL Wireless smoke detector

If smoke is detected the VL Wireless smoke detector triggers a local acoustic alarm. The alarm is also sent wirelessly to the VL Radio receiver or VL Telephone plus, which then triggers a call in Medical 800.



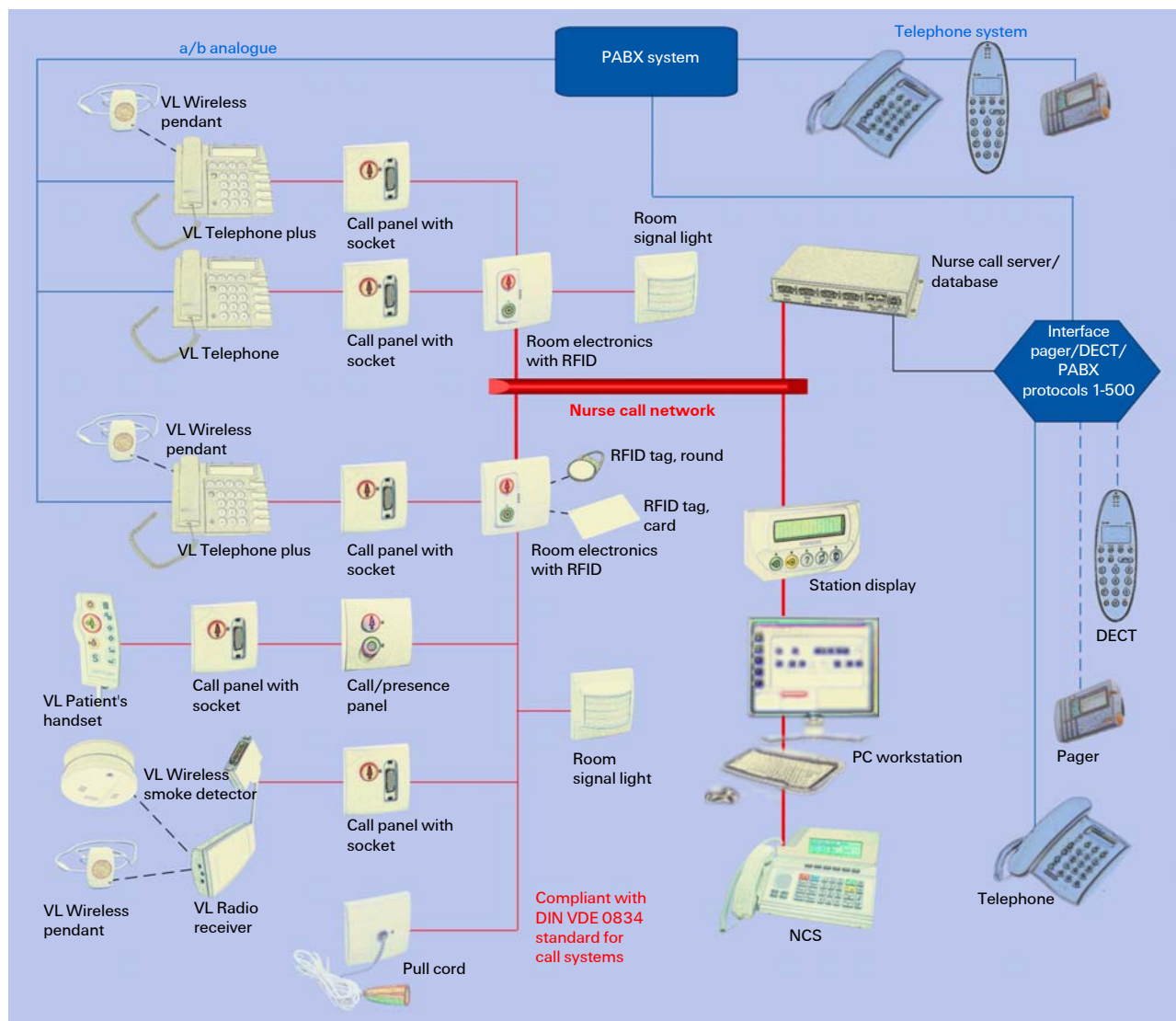
The VL Wireless smoke detector has an integrated battery monitor that triggers an acoustic warning at intervals of one minute if the battery capacity falls below the minimum level.

Data transfer to HIS or care documentation

All recorded data can be accessed with mediLog and are of course password-protected against misuse. An SQL interface - CareDataInterface - is also implemented. This allows other software programs to access these data, e.g.



for the purposes of recording nursing data. It goes without saying that all data are also available to mediGraph, where users have the option of displaying them.



Integration

Multiple usage through the integration of existing technical infrastructure keeps expenditure under control, facilitates operations because familiar systems and equipment are used and ultimately enhances the level of acceptance by staff and residents.

RFID reader

The new RFID reader in the presence panel allows applications and combinations with access control systems. The access control cards and tags can, if they meet the current ISO standard, also be used in communication systems as RFID tags for setting presence. That means one less item of equipment that staff has to carry round.

Personal identification

The communication system can also directly handle access control tasks if there is a need to protect access-restricted areas such as the kitchen area or the medicines store. If you want to know which visitors, family members or doctors are in your building at any particular time, you can find this out elegantly and efficiently - because the personal identification facility means you always have an overview.



Fire detection

The displaying of fire detection information using the ZETTLER® Medical® 800 communications system has been a feature for so many years that it is now inconceivable

to go without it. In the event of a fire, the staff can take immediate action before the rescue service arrive.

We have expanded the integration still further so that the location of the fire

can be displayed by the corresponding light symbols on the LED room

signal lights. This is yet another potential cost saving that can be achieved through the intelligent use of existing infrastructure.



Economy

Modular design

The modular design of the concept allows all system components to be installed either as a package for a global solution or individually, depending on the requirements of the care organisation and the available financial resources. All components are compatible with Medical[®] 800 and can be freely combined as desired.



Wiring concept

The wiring concept of the new ZETTLER[®] Medical[®] 800 generation makes installation of the components both easier and faster. Measuring points allow cabling to be checked and the sensitive electronics are not installed until immediately before commissioning, virtually precluding any damage during the construction phase.

Bus cabling and star wiring

The concept supports both bus cabling and star wiring and allows existing cables to be used for modernising legacy systems. All that is needed is to replace the old room electronics unit with a new one.



Upgrading

A nurse call system (without speech) can be upgraded to a communication system (with speech) at any time - even afterwards - by connecting the VL Telephone. This is an easy way of achieving a higher standard of communication system compliant with DIN VDE 0834.



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