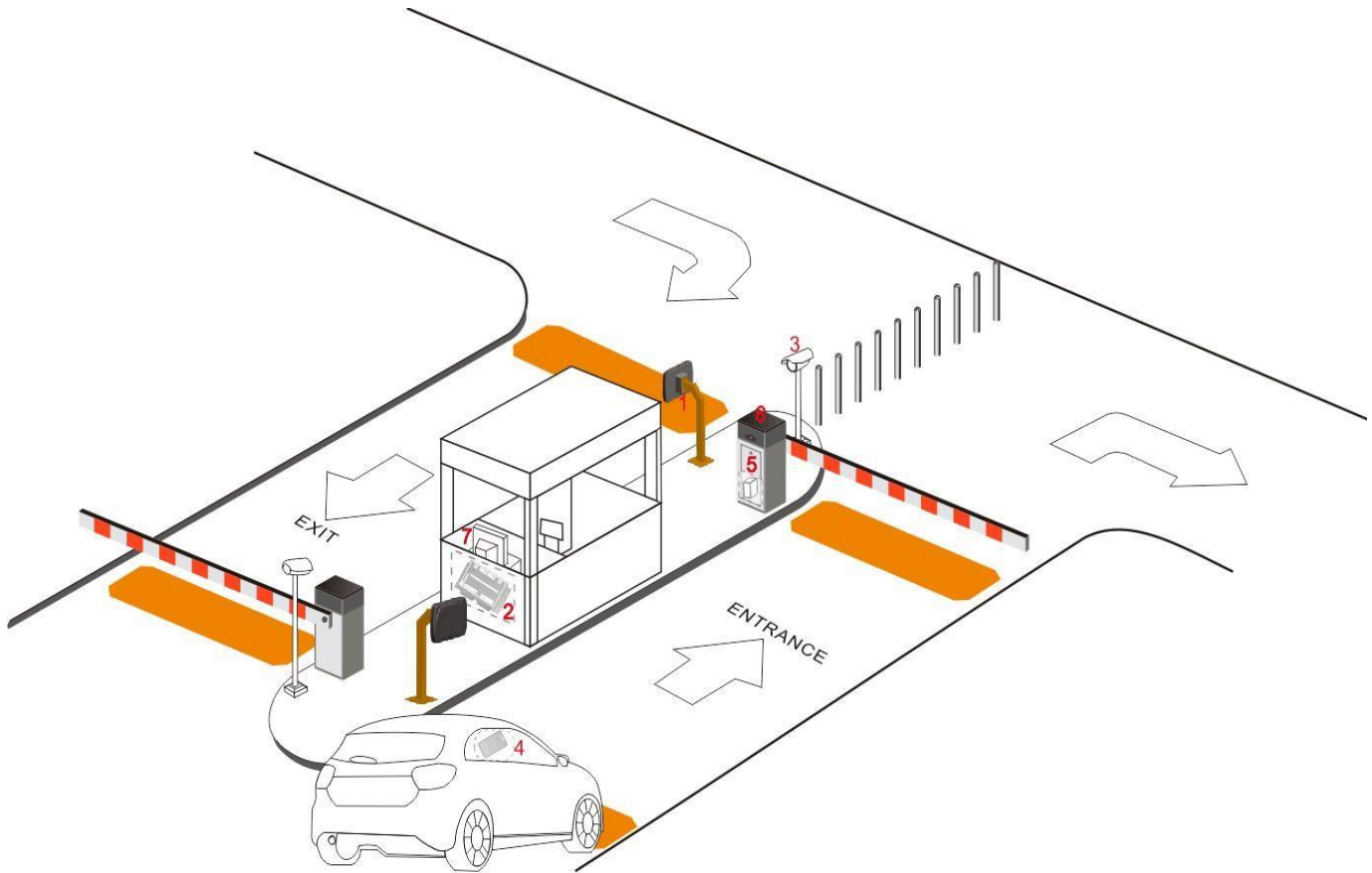


# YCH Proximity Middle Range Parking System Solution



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## System Description:

**YCH GP99** is an extended range 125kHz RFID Long Range proximity reader featuring compact dimension. It can read range from 90cm to 130 cm depends on the interference on site. GP99 can effectively penetrate solar film and allows MC-5 proximity card to be read from inside the car without winding down windows. The unit will run an excellent power supply and marking it particularly suited to access control, car parking and through-well reading applications. Ideal solution for car parking access control; residential and commercial building — no more hand getting wet during rainy day and less car robbery risk at entrance.

## System Highlight:

- ❖ Can penetrate solar film (V-Kool40)
- ❖ Auto tuning function to compensate presence of metal and interference
- ❖ Extended reading range from 90 cm to 130 cm.
- ❖ Bright LED indicators, tuning LED bar
- ❖ Firmware up-gradable in the field
- ❖ IP-65 waterproof housing design
- ❖ High-quality power supply with noise filter included.
- ❖ Loop Inductive function optional
- ❖ Anti-rereading function included
- ❖ Support local anti-Passback function between 2 reader units
- ❖ .26,000 users in max
- ❖ 100,000 records can be saved(cycle/lost)
- ❖ 64 different time zone groups can be setting according to customer different requirement.
- ❖ CCTV system integration and image compare function which makes the community and property safe.
- ❖ Suit for Hands free parking system

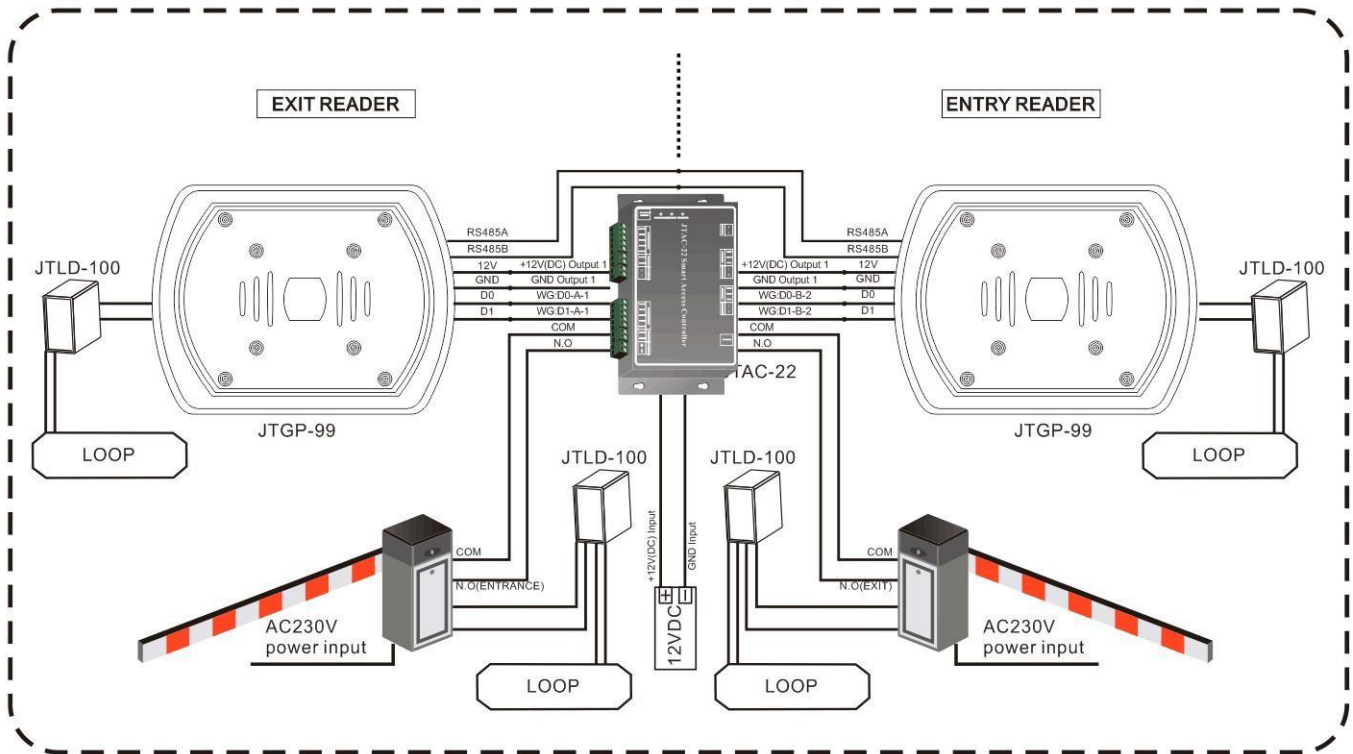
## System Advantage:

- ❖ when the card within in the inductive range and card ID be read by one reader, the other reader will not read this card again. This function is main be used for solve the interference problems behind the other reader.
- ❖ Under the same environment, GP99 anti-interference ability is strong, very afflictive external conditions
- ❖ Our reader with the IP65 water-proof level, and it can work perfectly in the rainy days, no need the additional accessories, and it can save your cost ,and customers pay less money but can got very good experience
- ❖ Our reader has integrate the loop inductive function, it can work with our vehicle loop detector. For some special application, you can connect to the loop detector and when the vehicle on loops, the card can start to work with the reader, which can make the whole system with high reliable and stable.
- ❖ Obtaining the best reading range
  - 1).To obtain advertised reading range use high-quality RFID cards and install the GP99 in a noise and metal-free environment.
  - 2).The quality of RFID cards affects the reading range of the GP99. Poor cards can reduce the reading distance by as much as 50%. On the other hand, using special ““thick”” RFID cards (that contain the coils with a much larger number of turns) can increase the reading distance to beyond 90-130 cm.
  - 3).The main frequency of the GP99 is 125KHz. Regular CRT monitors generate noise in this band and can interfere with the operation of the GP99. Other 125KHz

RFID readers can affect the reading range of the GP90A even from a distance of several meters! The GP99 provides a special serial command that can be used to verify current noise level- see section

4). Avoiding metal objects means that the GP99 should not be installed on metal surfaces. Metal grids inside the concrete walls also count. The GP99 includes advanced auto-tuning circuitry that compensates for the presence of metal (see section 7) but the best reading range is still obtained in the metal-free environment.

### Installation Diagram:



### Configuration List (Standards with one exit and one entrance in parking application)

Model	Qty	Details	Remark
GP99	2	Proximity reader	✓
MC-5	2	EM smart tag	✓
PPS-C2V12	2	Particular power supply	✓
JTLD-100	4	Vehicle loop detector	✓
JTBR-100	2	Gate barrier	✓
JTAC-22	1	TCP/IP controller	✓
JTAB-1	1	Metal box with camp lock	✓
BKT GP99	2	Gooseneck mounting bracket for GP99	Optional
GS-SD	2	Standards Gooseneck to mount access control system	Optional
Nova150	1	Backup battery	Optional
Surge protector	3	Signal /power protect	Optional

**YCH Parking Access Control software** offer clean and simple screen and which make the safe guard feel comfortable and easy to operation. It allow simplified interface to add / edit / delete users. YCH Parking Access Control Software also offers filtering option to customized report as per your need. Text file database is easier to manage and can be installed into any low end PC.

The screenshot displays the 'RFID SYSTEM' software interface. The main window shows a 'Report' tab with a table of transactions. The table has columns for NO., Card ID, User, Worker No., Department, Date, Time, Door, Tag Name, and Description. The data shows various transactions for users like Bella and Felicia, with descriptions such as 'Anti-Deleting', 'Illegal Card', and 'Allowed'. A sidebar on the left contains navigation options like 'Door Controller', 'Add New User', 'Card Enroll', 'Access Level', 'Event Transaction', 'Viewing Online Event', and 'Attendance Report'. A search bar at the top allows filtering by Time Zone, Tag Name, Department, User, and Card ID. A 'NO PIC' warning is visible on the right side of the report area.

**Clean interface easier to review all online transaction**

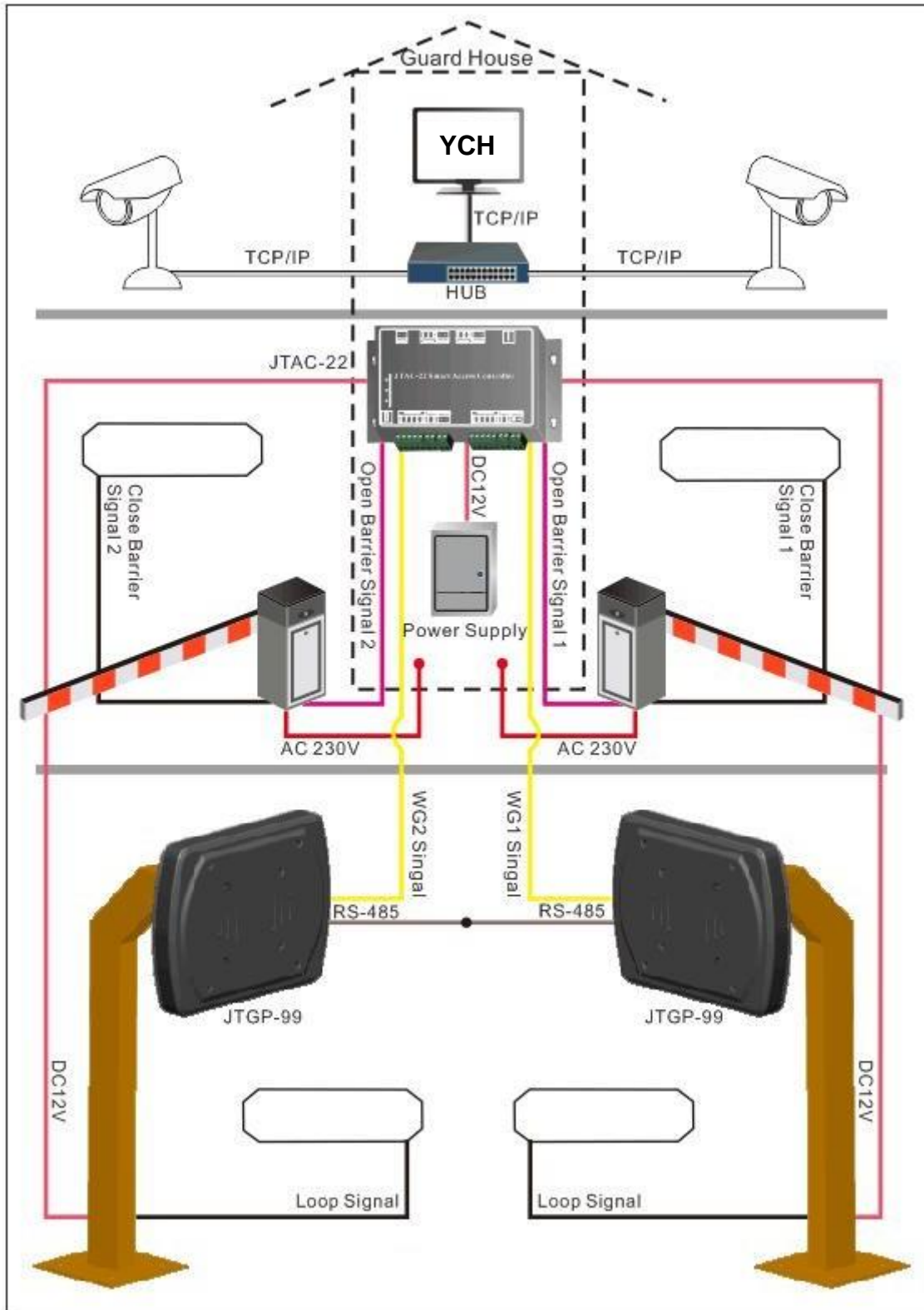
This screenshot shows the 'Edit User' window for a user named 'Helen'. The window is divided into 'Basic Profile', 'Advanced Profile', and 'Access Level' tabs. The 'Basic Profile' tab is active, showing fields for Name, Card ID, Personal Password, Worker No., Card Code, Religion, Gender, Department, Dept No., and Rank. There is also a section for 'Attendance' with 'Select' and 'Delete' buttons. A small photo of the user is displayed on the right. The 'Save + Add', 'Save', and 'Exit' buttons are at the bottom.

**User database**

**Easy report filtering**

### System working principle:

- When the vehicle on the loops which connect to the entry proximity reader. YCH smart tag will communicate with the proximity hands free reader;
- After reader received the tag signal and send the data to controller by Wigand interface, barrier will open automatically after judging the card ID is valid. (if invalid , barrier will not open)
- After the vehicle passed the second loops under the entry barrier, and the barrier arm will down automatically;
- The software in the manager Centre will show the real on line transaction event , and also can export EXCEL report
- When the vehicle on the loops which connect to the exit proximity middle range reader, YCH Smart tag will communicate with proximity middle range reader
- After reader received the tag signal and send the data to controller by Wigand interface, barrier will open automatically after judging the card ID is valid. (if invalid , barrier will not open)
- After the vehicle passed the second loops under the exit barrier, and the barrier arm will down automatically;



Note: Under Anit-passback function, if want to re-entry, the vehicle must exit firstly after entrance. This function is for avoiding invalid entry if some people not have valid card or not belong to this residence community.