



## ACCESS CONTROL EQUIPMENT

Access control systems consist primarily of three component parts. The first is the reading technology, part of which is briefly described below. Second is the control system - this can be a simple piece of equipment that will accept or reject the code that is read, or a more sophisticated possibly on-line system that will interrogate the read code against a database to determine the course of action. Finally comes the means of controlling the movement of vehicles or personnel - in the form of a barrier, powered gate, lockable door or gate or a turnstile.



The scope of access control equipment now available is greater than ever. Depending on customer requirements, the choice of system can range from a simple magnetically encoded batch key, or magnetic stripe card readers, through to fully digitalised vehicle registration plate recognition systems. Modern access control systems not only allow car park operators to decide who can use their car parks, but when and for how long. The level of control need not stop at the car park. It is increasingly common today for access control systems to extend to other buildings - providing zoned and time controls, keeping unwanted intruders out, and creating a safer working environment for all personnel.

The heart of any access system is the code number. This can either be a batch code, issued to every person, or individual codes which enable many different control features such as anti-pass back, voiding and validating or manipulation within a database.



Technologies employed include permeable magnetic material and fixed magnets, a technique used in the older and more basic access equipment; ferro magnetic swipe cards, giving read-write capability and non-erasable Watermark cards; and a wide range of non-contact proximity systems, using passive keyfob or cards to provide a read range of 100mm or more. For enhanced reader ranges of several metres, active transponders can be used. Cards and keyfobs using infra-red techniques as well as bar codes are also widely available. For a more basic approach, a digital keypad will normally compare a four digit sequence against a pre-set code. Or maybe an audio intercom with the added possibility of a video link. For occasions where you need to allow visitors or customers to pass through the system only once, the simple issuing of a coin token will enable single time usage.

For more information, see overleaf.

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Midland Barrier Company can provide all of the following pass card and access control systems, and more:

- Magnetically encoded batch code key readers
- Magnetically encoded key readers with void and validating
- Miniature hand held radio transmitters with batch coding
- Miniature hand held radio transmitters with void and validating
- A wide range of magnetic swipe card and key reader systems
- Short to medium range proximity readers (passive)
- Long range proximity readers (active)
- Exterior grade electromagnetic door and pedestrian gate locks
- Vandal resistant digital keypads
- Token acceptor units
- Anti-vandal long range intercoms systems
- CCTV systems
- Inductive loop systems
- SVD systems (selective vehicle detection units)
- Electric door and gate locking mechanisms
- Remote monitoring systems



For more specific information on the access control system you are interested in, please contact us and we will be pleased to advise and help you with your requirements.

**Midland Barrier Company**  
102 Victoria Avenue, Off London Road, Worcester, WR5 1ED

### Products

Parking Barriers ~ Manual Barriers ~ Security Barriers ~ Rising Parking Kerbs and Bollards ~ Turnstiles and Pedestrian Control Gates ~ Parking and Security Posts ~ Bollards ~ Directional Flow Plates ~ Ticket Issuing Machines ~ Signs and Wheel Clamps ~ Height Restrictors ~ Access Control Equipment ~ Road Safety Barriers ~ Kiosks and Modular Buildings ~ Barrier Accessories ~ and more...

### Services

Ground Works ~ Installations ~ Maintenance and Servicing ~ Repairs ~ Bespoke Equipment

We operate an ongoing product development policy and reserve the right to change specifications without notice.