



ELECTRICAL AND DATA CABLE REQUIREMENTS GUIDE FOR INSTALLATION OF:

EPOS & SCALE EQUIPMENT

We require a 'CLEAN' dedicated supply and earth for all our equipment.

The 'CLEAN' supply should be taken from the cleanest phase available on the distribution board, i.e. the phase which has the least amount of equipment, which due to its nature creates 'SPIKES' onto the mains supply, e.g. refrigerators, thermostats Etc.

The clean supply must have its own circuit breaker and be clearly marked 'EPOS / SCALE EQUIPMENT CLEAN SUPPLY'.

Belts and other electrical equipment at the checkouts and in the offices to be on a 'DIRTY' supply, separate to the Anchor Data Systems supplied equipment.

Modems used by the ePOS systems for multi-branch communications should be connected to a dedicated outside direct dial analogue phone line. Line sharing with PBX systems, faxes, alarm systems and other communications software may cause unpredictable results with the ePOS system.

Uninterrupted power supply (UPS) unit, also known as a **battery back-up**, should always be used where possible to protect the ePOS and scale equipment. This will also provide the benefit of letting you work continuously through short power cuts without losing data or experiencing other damaging effects.

The use of multi-adaptor plugs & sockets should be avoided where possible.

If possible we would recommend using; 5A switched round pin sockets for all outlets of the clean supply, to prevent other equipment being plugged in.

It is important that you let us know in advance if you are going to follow this recommendation as we need to change all the plugs on the equipment we supply.

Twin and Earth 2.5 cable can be used for the clean line, to checkouts (cash registers/scales) and office (computer). A radial circuit is required.

The clean supply cables must be kept separate from all other cable runs.

Where this is unavoidable, screened mains cable or earthed metal conduit/trunking must be used.

ELECTRICAL SUPPLY POINT OF SALE (Checkouts)

If possible we would recommend using, switched 5A round pin sockets in each Checkout/Point of Sale/Scale position. (POS/Till Unit/Printer/Scanner/Modem/Hub/Router)

ELECTRICAL SUPPLY OFFICE

If possible we would recommend using, switched 5A round pin sockets in the office. (Computer/Printer/Scanner/Modem/Hub/Router)

DATA CABLE

Data cables must be kept clear of any electrical cables and sources of possible interference, fluorescent lights, motors, freezers etc.

The owner/manager/staff should always be consulted regarding the placing of the equipment.

If metal conduit/trunking is used to drop data cable to the checkouts the metal conduit/trunking must be earthed.

Data cable can be supplied by ANCHOR DATA SYSTEMS and installed by site electricians. An Anchordata engineer will terminate the data cable and secure it to the equipment prior to the system going live. You should also be aware that on ePOS systems, **different types of data cable** are sometimes necessary. The data cable between the computer and first checkout can be physically and electrically different to the data cable, which interconnects the checkout terminals.

The data cable will start in the office near the position where the computer is to be sited then depending on the type of ePOS system.

It will link to checkouts through a hub/router unit in a star configuration.

Or

Connect directly from the head-office computer to the first checkout.
Additional checkouts will also be linked to a hub/router unit in a star configuration.

To make the routing of the data cabling easier and to reduce the number of cable runs, additional hubs/routers can be purchased and used to bridge locations.

Two metre tails of data cable should be left for fixing the data cable to the equipment.