

PROJECT	Barnsley Glass Works Phase 2
LOCATION	Barnsley
WORK ELEMENT	Car Park Equipment
TECHNICAL SUBMISSION No.	TS014
REVISION.	A
DATE	16/03/2020

First Issue – Design Intent issued for Approval

This technical submittal is for the proposal of the Metric Amano Xparc Pay on Foot System at BGW2 as per attached tech sub.

Second Issue – Rev A

Technical submittal now includes details of ANPR cameras.

REVISION CONTROL REGISTER

Revision	Amendment	Date	Prepared by	Approved by
-	First Issue	24/02/2020	I Wagstaff	
A	Second Issue	16/03/2020	I Wagstaff	
Clients Representative Comments				
This Document has been checked by: Name: N Pollard			(Clients Representative Sign Off) Signature: -----	
This Document has been checked by: Name: -----			(Clients Representative Sign Off) Signature: -----	
This Document has been checked by: Name: -----			(Clients Representative Sign Off) Signature: -----	

SECTION	CONTENTS
SECTION 1	COMPLIANCY
SECTION 2	INTRODUCTION
SECTION 3	TECHNICAL DATA SHEETS
SECTION 4	CERTIFIED DRAWINGS
SECTION 5	SPECIFICATION
SECTION 6	NON COMPLIANCE
SECTION 7	OFF SITE TESTING

SECTION 01 – TECHNICAL COMPLIANCY STATEMENT

Project: Barnsley Glass Works Phase 2	TS Ref: TS014
Material Item: Car Park Equipment	Rev: A

Proposed Specialist Contractor/Supplier: Metric

Specification Reference (s): BMBC Requirements – Client Liaison Meetings

Information Attached: ✓ Equipment / Manufacturers Schedules ✓ Certified Performance Levels ✓ Certified Drawings ✓ Non-Compliance Schedule ✓ Specification Clauses

Compliance Statement: Fully compliant with BMBC requirements.
--

Further Information to be Issued: None Off Site Testing Required: N/A Method Statements Required: To follow. Scope: Supply, install, test and commission.
--

Signed: ----- Approval Status: -----

Name: ----- Reviewer: -----

On Behalf of: ----- On Behalf of: -----

Date: ----- Date: -----

HE BARNES LTD; Procurement Process M&E TECHNICAL SUBMISSION

SECTION 02 – INTRODUCTION

Services Overview – Car Park Equipment - Metric Amano Xparc Pay on Foot System

SECTION 03 – TECHNICAL DATA SHEETS

See attached Metric tech sub.

SECTION 04 – CERTIFIED DRAWINGS

See attached Metric tech sub.

SECTION 05 – SPECIFICATION

BMBC Requirements – Client Liaison Meetings

SECTION 06 – NON-COMPLIANCE

DEVIATION	EMPLOYERS REQUIREMENTS	HE BARNES PROPOSAL	REASON FOR CHANGE
N/A			

SECTION 07 – OFF SITE TESTING

N/A



*A Pay on Foot
Car Parking Management System*



H.E. Barnes
c/o The Glass Works
Barnsley

13 March 2020

Our ref: QC22451ANPR

For the attention of Darren Jones

Dear Darren

Metric Amano Xparc Pay on Foot System

Thank you for requesting a revision of our proposal

Please find enclosed our proposal with the addition of ANPR technology.

I do hope this contains all the information you need, however please do feel free to ask any questions you may have, we will only be too happy to help.

Sincerely,

A handwritten signature in blue ink that reads "Steven McLaughlin".

Steven McLaughlin
Business Development Manager (Scotland)

T: 01793 647800
M: 0 7971 267175

Introduction

The Metric Group have been manufacturing parking solutions in the UK since 1878. We employ over 160 people and our UK base and factory is located in Swindon, United Kingdom. We are a major source of employment in the area.

We have always been at the forefront of the market in providing parking solutions. We are very proud of our heritage and this longevity has led to unpatrolled experience in this marketplace. Our History includes some truly historic landmarks.

Some of our notable achievements include;

- The world's **First** electronic calculator
- The world's **First** electronic Parking Terminal
- The **First** networked parking terminals
- The **First** real time parking systems
- The **First** vehicle identification on ticket
- The **First** integration with ANPR systems
- The **First** electronic locking system as standard
- The **First** contactless credit card system in terminal
- Joint Back office for Pay on Foot and Pay n Display



We are the largest company in our field in the UK and supply our products and service to Local Authorities Public bodies, Tourist attractions, Hospitals, Airports, Hotels, etc. We offer a true nationwide sales and service coverage with Metrics own skilled engineers deployed all over the UK to ensure a customer service second to none.

Our network of
engineers offer unrivaled
customer support



UK wide coverage for your peace of mind:

- Nationwide field service engineers
- Technical support staff
- Remote diagnostic facility
- Low Emission vehicles
- Real-time monitoring
- Ticket stock management
- Comprehensive on-line reporting

- Full hosting facilities

Metric Group Limited is the exclusive UK sales distribution channel for the Amano Xparc range of Pay on Foot equipment, the largest Pay on foot supplier in the world.

This alliance followed on from a similar partnership with the sister company Amano McGann, who became the sole distribution agents for Metric's Pay and Display machines throughout the USA.

We have the experience to help you maximize your parking space and maximise the revenue stream it can deliver. Not only do we offer the very latest technologies, easy integration and an excellent level of after-sales support, but also simple to operate back office software solution allowing full cloud based data management from any authorised smart device.

Xparc offers:

- Full IP integrated system
- A future-proof technology including, web based connectivity with online and onsite support
- A proven and established UK supplier with the largest Field Service Team in the UK
- Sleek, ergonomic design to fit seamlessly into modern parking architecture

By combining state-of-the-art software solutions with revolutionary design, we have striven to keep our global position as the world's market leader in parking management systems (PMS), with currently over 40,000 working installations world-wide.

Designed for all markets with both the customer and manager in mind, Xparc is highly user-friendly while providing superior control and one hundred percent money collection and consolidation features.



▲ Xparc was designed specifically for the most demanding requirements. The product incorporates both state-of-the-art design and looks, combined with the use of the very latest IT technologies in

both its hardware (e.g. each component node having full PC processing power capabilities) and its software (e.g. touch screen technology).

- ▲ **Xparc is fully web enabled** and thus provides a fully networkable solution using both License Plate Recognition (LPR) and barcode technology as its preferred methodologies of operation for complete automation and peace of mind. It also supports full IP integration of both CCTV, video and VoIP intercom, allowing the system operator to fully manage the car park from ANY computer with internet access. Other "IP addressable" items can thus easily be retrofitted in a truly "plug and play" fashion as and when required to "upgrade" the system, e.g. door nodes, help points, license plate recognition cameras, customer ticket validation units etc., making it both immensely cost-effective as well as completely "future proofing" it as new IP addressable items are developed and incorporated into its infrastructure.
- ▲ Knowing that every machine in the **Xparc system** is communicating by TCP/IP, it is obvious that **web pages can be shown that offer the necessary information to end users** (addresses, QR-codes to transfer shop details or other information to a Smartphone, etc.).
- ▲ Finally, **Xparc's** software has been completely developed to offer off the-shelf operational solutions for customers in all the major parking segments without the need for any expensive or ongoing bespoke software "customization" or future hardware upgrades.
- ▲ **Xparc XPARQ management system** which follows the web application concept and provides its own HTTP server. As a result, no client software needs to be installed at customer PC's, thus drastically reducing the complexity of all future system integrations.
- ▲ **Xparc management server** hosts the relational database management system (RDBMS), which is used for the secure storage of system and user data. Additionally, it also hosts a number of software processes dedicated to specific tasks (i.e. tariff calculation, time synchronization, distribution of data, etc.). The RDBMS, which is accessed via SQL and ODBC also facilitates third party access to stored data.
- ▲ **Xparc management server software**, which is installed on the field controller or the car park server itself, contains integrated remote system management software, thus allowing even remotely distributed systems to be managed from a single central location "Central Control Room" (CCR)
- ▲ **Xparc software package** which is used for tariff programming and accounting and is based on the standard ERP program structure, thus ensuring the utmost levels of flexibility and expandability.
- ▲ **Xparc management system** which transcends mere practical functionality by successfully ensuring that all possible system configuration and administration necessities are fully met.
- ▲ **Xparc initial system configuration**, as well as day-to-day maintenance of data (i.e. customers, tariffs, service contracts, etc.) remote software upgrades are included as standard at no additional cost.

Reference Sites located in the United Kingdom

York Hospital York Teaching Hospital NHS Foundation Trust



Poole Hospital NHS Foundation Trust



Poole Hospital 
NHS Foundation Trust



Poole Hospital Poole 3xEnts 3xExts 3xPOFs 2008

Millennium Point MSCP Eastside Birmingham



Birmingham City Council, Millennium Point MSCP



Steve Pearson, Interserve Contract Director says *"We are delighted at the performance of the new Metric Amano Pay on Foot System. I must admit I did anticipate some challenges with the project, but I am delighted to report Metric took full control and provided a seamless transition".*

The Cumberland Infirmary is a general hospital based in Carlisle. It provides a 24 hours A & E service with trauma Unit status, a consultant-led maternity services and special care baby unit, a wide range of clinical services, including delivering complex vascular and general specialist services, and outpatient clinics.

Interserve has 80,000 employees across the globe with headquarters in the UK and is FTSE listed. It has numerous companies both in the UK and internationally, from construction and engineering, to catering and school meals, to security and support for the MoD, to rehabilitation and health care.

Interserve has an FM contract with Cumberland Infirmary as part of a PFI contract won in late 1997. The building of the hospital was completed in 2000 and since its completion Interserve has been responsible for facilities management of the building .

Interserve approached Metric to look at the existing management of the main visitor's car park at the Infirmary. This was historically controlled by a traditional Pay N Display system, managed and enforced by a third party management company.

Interserve had identified this methodology was becoming increasingly unpopular with visitors to the hospital .The enforcement of parking fines created a negative view in the local community and added additional unwelcome stress on visitors to the hospital.

In consultation with Interserve, Metric Group conducted a full site survey of the main Car Park A and annexed Car Park C.

Our specialist's team put together a comprehensive plan to upgrade from the old Pay n Display system to a new Digital Solution and recommended a fully automated Pay on Foot system supplied by Metric and powered by Amano.

Metric provided a full turnkey project. From pre sales design and consultancy, to installation and civils works. A dedicated project team ensured the project was delivered on time with the minimum of disruption to the hospital.

The new state of the art system has already proved to be a sound investment as visitors to the hospital can now go about their business and pay for parking at the end of their visit, thus providing a much more relaxed experience without the worry of incurring a fine.

Reference sites located in the rest of the world



REFERENCE SITES



- University hospital of Amsterdam – The Netherlands
- 11 entry
- 11 exits
- 2 Passcard readers
- 8 paystations
- 24 UHF readers
- 1 RAID5 server




REFERENCE SITES



- CBD Belapur - India
- 8 entry
- 4 exits
- 2 pay stations
- 4 web cashiers on tablet
- 1 server




REFERENCE SITES



- Housing Society project – Hong Kong
- 43 entry
- 44 exits
- 40 manualcashier
- 1 central server for 40 sites (local servers)



Some Major European Xparc Installations

Location	Type	Name	XP28	XP67	XP79	XP31	XP100	Comments
Belgium, LEUVEN	University Hospital	Universitair Ziekenhuis Gasthuisberg	7	7	5	0	Virtual Server	Webservice
Holland, AMSTERDAM	University Hospital	Vrije Universiteit Amsterdam	11	11	8	2	Raid 5 server	With NEDAP CSV interface.
Austria, SALZBURG	Retail	McArthur Glenn Designer Outlet	5	5	8	0	Standard server	1000 spaces
Greece, ATHENS	Retail	McArthur Glenn Designer Outlet	4	4	8	0	Standard server	1200 spaces

The Solution

A state of the art digital Pay on Foot parking system accessed by entry and exit tickets. Eight automated pay station offerings offering bank notes, coins, credit card and contactless payment

Controlled by the award winning Xparc Software



Two Lane Entrance

Proposed Entrance Hardware

2 x Metric Amano XP2800 Entrance terminal

The attractive look and feel is combined with the latest technology. The device is connected to the central Xparc server with a standard IP connection. This valid for both data and voice. A variety of options will ensure that any customer requirement can be fulfilled.

Specifications:

Computer : Amano XP-Box; Debian Linux OS; TCP/IP; 1 COM Port, 4 USB Ports

Display: 7 segment character display; 4 lines x 20 characters, with backlight yellow-green Character area : 20.8x70.4 : LCD size : 26x76

Ticket Reader : Linear Barcode scanner

Ticket Printer : Thermal printer. Supports paper tickets (54 x 85mm, 170g/m² max) Capacity: 4000 Tickets

Intercom: VoIP based module with speaker and microphone (Optional)

Memory: 8GB

Network: Standard TCP/IP

Season Cards: Mifare (ISO14443A) card reader (Optional):

Case : Aluminum, RAL9005/9006 & safety glass

Main Power: 100/120, 220/240 VAC $\pm$ 10%, 50/60 Hz with grounding

Consumption: 150W (250W with optional heater)

Ambient : -10°C ~ +55°C (-25°C ~ +55°C with heater)

10~90% RH (non-condensing)

Net Weight: 35 kg

Dimensions: 1224 (H) x 360 (W) x 364 (D) mm

Approvals : CE, RoHS, WEEE

Additional Options : License Plate Recognition Mid Range UHF Reading (Passive Cards or tags) Long Range UHF Reading (Active Cards) Specifications:

Computer: Amano XP-Box; Debian Linux OS; TCP/IP; 1 COM Port, 4 USB Ports

Display: 7 segment character display; 4 lines x 20 characters, with backlight yellow-green Character area : 20.8x70.4 : LCD size : 26x76

Ticket Reader : Linear Barcode scanner

Ticket Printer : Thermal printer. Supports paper tickets (54 x 85mm, 170g/m² max) Capacity: 4000 Tickets

Intercom: VoIP based module with speaker and microphone (Optional)

Memory: 8GB

Network: Standard TCP/IP

Season Cards: Mifare (ISO14443A) card reader (Optional):

Case : Aluminum, RAL9005/9006 & safety glass

Main Power: 100/120, 220/240 VAC $\pm$ 10%, 50/60 Hz with grounding

Consumption: 150W (250W with optional heater)

Ambient : -10°C ~ +55°C (-25°C ~ +55°C with heater)

10~90% RH (non-condensing)

Net Weight: 35 kg

Dimensions: 1224 (H) x 360 (W) x 364 (D) mm

Approvals : CE, RoHS, WEEE



Two Lane Exit

Proposed Exit Hardware

2 x Metric Amano XP6700 Exit terminal

The attractive look and feel is combined with the latest technology. The device is connected to the central Xparc server with a standard IP connection. This valid for both data and Voice. A variety of options will ensure that any customer requirement can be fulfilled.

Specifications:

Computer : Amano XP-Box; Debian Linux OS; TCP/IP; 1 COM Port, 4 USB Ports

Display: 7 segment character display; 4 lines x 20 characters, with backlight yellow-green Character area : 20.8x70.4 : LCD size : 26x76

Ticket Reader : Linear Barcode scanner

Ticket Printer : Thermal printer. Supports paper tickets (54 x 85mm, 170g/m² max) Capacity: 4000 Tickets

Intercom: VoIP based module with speaker and microphone (Optional)

Memory: 8GB

Network: Standard TCP/IP

Season Cards: Mifare (ISO14443A) card reader (Optional):

Case : Aluminum, RAL9005/9006 & safety glass

Main Power: 100/120, 220/240 VAC $\pm$ 10%, 50/60 Hz with grounding

Consumption: 150W (250W with optional heater)

Ambient : -10°C ~ +55°C (-25°C ~ +55°C with heater)

10~90% RH (non-condensing)

Net Weight: 35 kg

Dimensions: 1224 (H) x 360 (W) x 364 (D) mm

Approvals : CE, RoHS, WEEE

Additional Options : License Plate Recognition Mid Range UHF Reading

(Passive Cards or tags) Long Range UHF

Reading (Active Cards) Specifications:

Computer : Amano XP-Box; Debian Linux OS; TCP/IP; 1 COM Port, 4 USB Ports

Display: 7 segment character display; 4 lines x 20 characters, with backlight yellow-green Character area : 20.8x70.4 : LCD size : 26x76

Ticket Reader : Linear Barcode scanner

Ticket Printer : Thermal printer. Supports paper tickets (54 x 85mm, 170g/m² max) Capacity: 4000 Tickets

Intercom: VoIP based module with speaker and microphone (Optional)

Memory: 8GB

Network: Standard TCP/IP

Season Cards: Mifare (ISO14443A) card reader (Optional):

Case : Aluminum, RAL9005/9006 & safety glass

Main Power: 100/120, 220/240 VAC $\pm$ 10%, 50/60 Hz with grounding

Consumption: 150W (250W with optional heater)

Ambient : -10°C ~ +55°C (-25°C ~ +55°C with heater)

10~90% RH (non-condensing)

Net Weight: 35 kg

Dimensions: 1224 (H) x 360 (W) x 364 (D) mm

Approvals : CE, RoHS, WEEE

Additional Options : License Plate Recognition Mid Range UHF Reading (Passive Cards or tags) Long Range UHF Reading (Active Cards)



2 x Metric Amano articulated exit barriers

STANDARD FEATURES

- 1.4 sec Open/Close time
- Exclusive compact design
- Durable weather-resistant housing with double powder coating
- Microprocessor controlled logic board
- Dip-switch selectable operation modes
- 3 meter rectangular arm
- On-site changing for Left or Right hand movement
- Smooth, secure full 90° movement
- Up to 10.000 operations in 24 hours
- Constant movement cycle monitoring for motor safeguard
- Electronic movement control to Reverse or Stop in case of collision
- CE approved



SPECIFICATIONS

The XP1203 barrier gates are especially developed for use in car parks with a high frequency of use. The wear-proof mechanical design allows a speedy, smooth and secure movement. AMANO's XP1203 is suited for heavy-duty situations and will perform up to 10.000 cycles a day. Automatic reverse or stop is selectable in case of contact with an object in the down movement. A microprocessor logic board, in which all features are dipswitch selectable, fully controls the gate.

Electrical

Mains : 230V AC 50Hz

Power con. : Max. 1250W (ex. heater)

Connections : Din Rail screw terminals

Field Wiring: Numbered plug terminals

Dry contact inputs/outputs
12 V DC output
220/240 V AC output

Motor characteristics

Horsepower : 0.37 KW Motor

AMPS : 2.5 A

Heavy duty maintenance free gear reducer

Wear proof transmission parts

Tested for 10.000 cycles per day

Operating time 1.4 secs

8 x Automatic Pay Station

All parking at the site will be paid for primarily at an Automated Payment Station or 'APS' taking payment and returning change using cash and both credit & debit cards (Chip & PIN and contactless) as payment

STANDARD FEATURES

- ✓ **Computer:** Industrial PC (1.5GHz Pentium Processor, 512MB RAM)
- ✓ **Display:** 15" TFT (resolution 1024x768, 400cd/m²), Integrated Touch Screen Panel
- ✓ **Ticket Reader:** Barcode scanner / Reader
- ✓ **Thermal Printer:** Prints tickets, receipts and reports (Optional: separate Parking ticket printer).
- ✓ **Intercom:** TCP/IP based module with speaker and microphone (Optional)*
- ✓ **Network:** Standard TCP/IP
- ✓ **GUI:** Multi-language customer guidance (configurable)
- ✓ **Cards:** Integrated Mifare (ISO14443A) card reader or EM based proximity card reader (option). Certified EMV II Solution for Credit Card payments is included*
- ✓ **Coin System:** Recycles 4 coin values (hoppers with a capacity of up to 300 coins), coin box for non-recycled coin values and hopper full condition.
- ✓ **Bank notes:** Accepts 4 denominations (options: accept up to 16 notes, recycle 3x130 notes)
- ✓ **Credit Cards:** Certified EMV II Solution for Credit Card payments



SPECIFICATIONS

Case: Galvanized Steel (3mm) and safety glass.
Powder coating, RAL9005/9006
(Option: Stainless steel)

Main Power: 100/120, 220/240 VAC ± 10%, 50/60Hz

Consumption: 200W (300W with optional heater)

Ambient: -10°C ~ +40°C

(-25°C ~ +40°C with heater)

10~90% RH (non-condensing)

Net Weight: 180kg

Dimensions: 1699 (H) x 567 (W) x 415 (D) mm
1933 (H) with illumination top (optional)

Digital Connections

A fully incorporated credit card system via an integral 'Chip & Pin and contactless' is included on the Paystation. The transaction retrieval and billing service is in conjunction with a payment service provider (PSP) for unattended devices. We will be happy to assist with this application if required

For the use of credit card payments we will require the availability of a dedicated ADSL line with a static IP address. (The provision and costs will be the responsibility of the Customer)

4 x Off line Validator

A versatile "Stand-alone" unit for the provision of automatic applied parameters eg. For customer using the bar of the restaurant . Upon insertion of a parking ticket the unit prints a predetermined barcode onto the ticket, just above the access barcode.

These units also have the advantage that they can be "pre-programmed" to provide up to four "standard" validation discounts or instructions at the push of a single button thereby giving many and various discounts and instructions for a wide variety of different types of End-Users.



1 x Pedestrian Door access control



Door Entry networked access control system to be used for gaining access to the MSCP for pedestrians by producing a valid ticket issued by the MSCP entrance terminal

Can be upgraded to allow additional access. These include typing a numeric code (PIN) into a keypad, presenting a proximity or magstripe card or by using a long-range identification system for hands-free access.

Can be wall mounted or Pole mounted (as shown)

4 x Metric Amano Island mounted ANPR Cameras

2 x Metric Amano Island mounted ANPR Cameras

The licence plate of every vehicle entering the car park is automatically scanned by the ANPR cameras, thus converting each analogue plate to a unique digital identifier. ANPR controlled entrance and exit ensures a minimum of disruption and will keep traffic flowing even in the most busy of periods. Our metric Amano ANPR devices are the very best. It is an All-in-One automatic number plate recognition system: a single device integrates the lighting, camera, processor, inputs and outputs and the power source. SmartLPR® ACCESS is available in two presentations: cabinet and camera housing. The optimum size of the housing allows installing it anywhere. The housing is sealed to protect the unit against foul and adverse weather conditions. Its design ensures long useful lifetime and low maintenance.

Standard Features

- ☐ IP65 Housing with Heater
- ☐ TCP/IP
- ☐ In Lane Bollard Mounted

Optional Features

- ☐ Wall Bracket
- ☐ Pole Mount
- ☐ Ceiling Mount



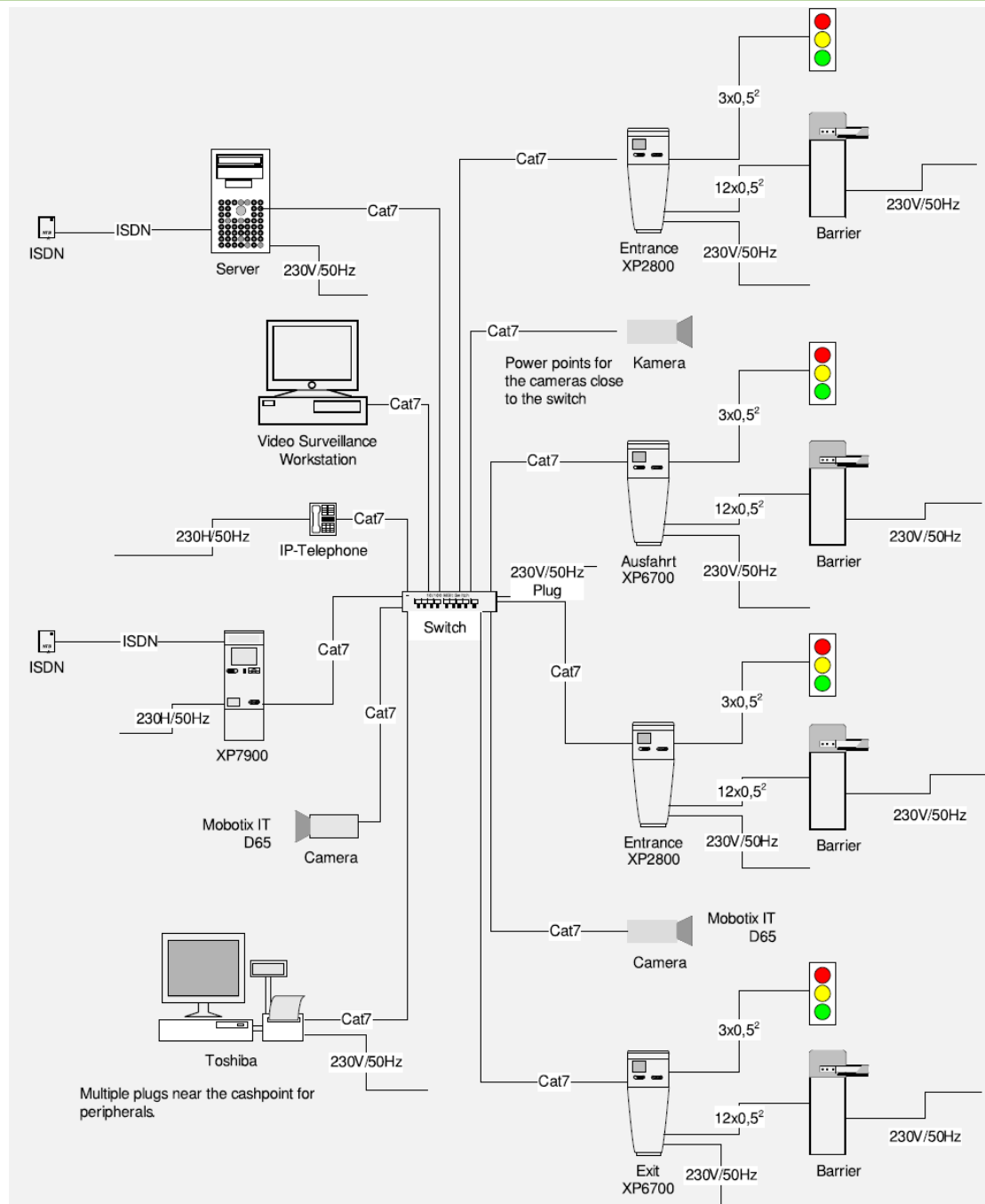
Civils Work included

Description of works	Number
To bolt down terminal (seal and level)	4
To bolt down barrier (seal and level)	4
To supply and install surface loop mat	8
To supply adhesive and resin	8
To bolt down ANPR Camera (seal and level)	4
To bolt down Pay on Foot machine (seal and level)	8
To supply and install mains flex between barrier and terminal.	4
Supply and install YY cable between barrier and terminal.	4
Overnights Lodging	8

General Qualifications and assumptions for the above work

- Works are assumed during normal working hours i.e. 9-5
- We have assumed one continuous and uninterrupted visit, revisits for reasons beyond our control would incur additional costs.
- We have not included for any works other than those which are specifically referred to.
- All mains supply and data cabling supplied and installed by others. Spurs installed at Terminals and RJ45 ends fitted to data cable.
- Localised cabling between machines is included
- A 3 core flex and cat 5 will be required to the ANPR. flex can come off the barrier cat 5 from the terminal.

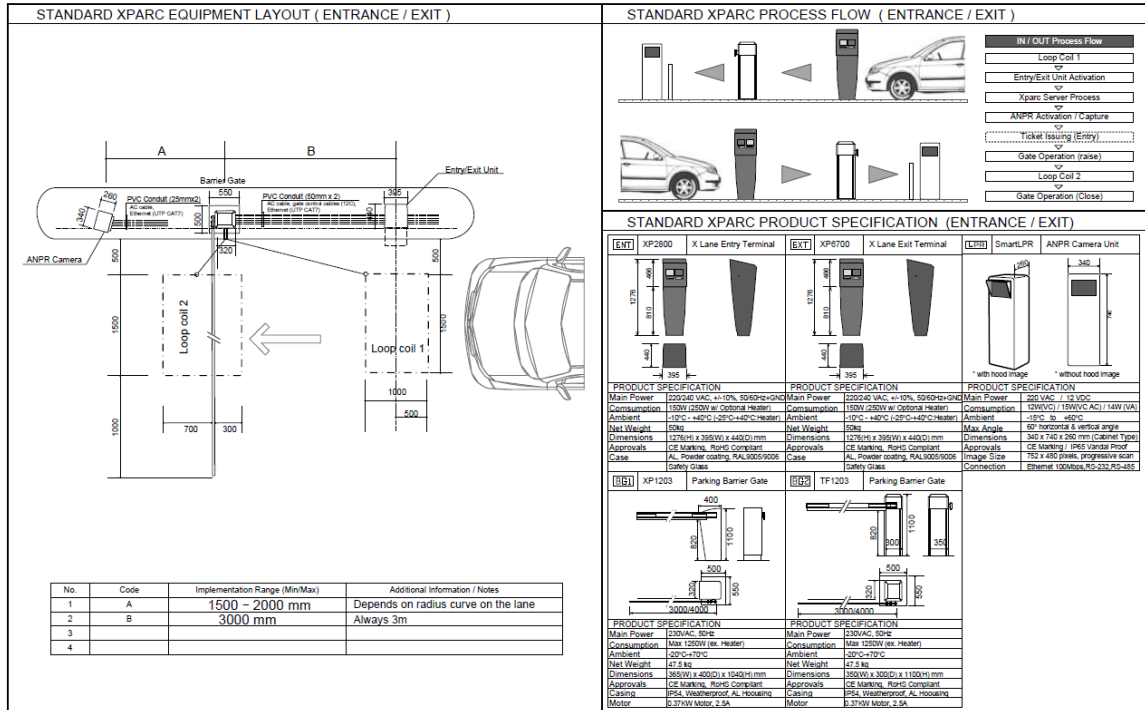
Typical Cabling Plan



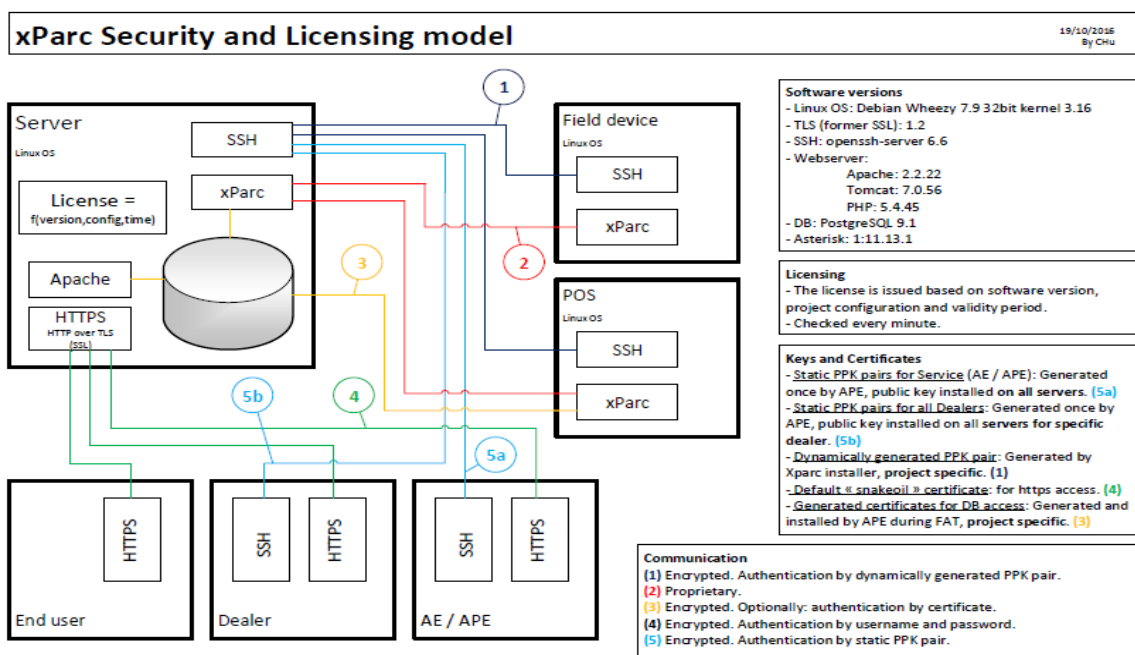
Power Supply (230V): The Entrances and Exits should be protected on their own. Power Supply checked after DIN VDE 0100/0113. The electrician has to prepare a inspection certificate.

Ethernet: For the Ethernet at least a categorie 7 (Cat 7) cable has to be used. The installation cables have to be completed with RJ45 boxes.

Standard Entrance/Exit Layout



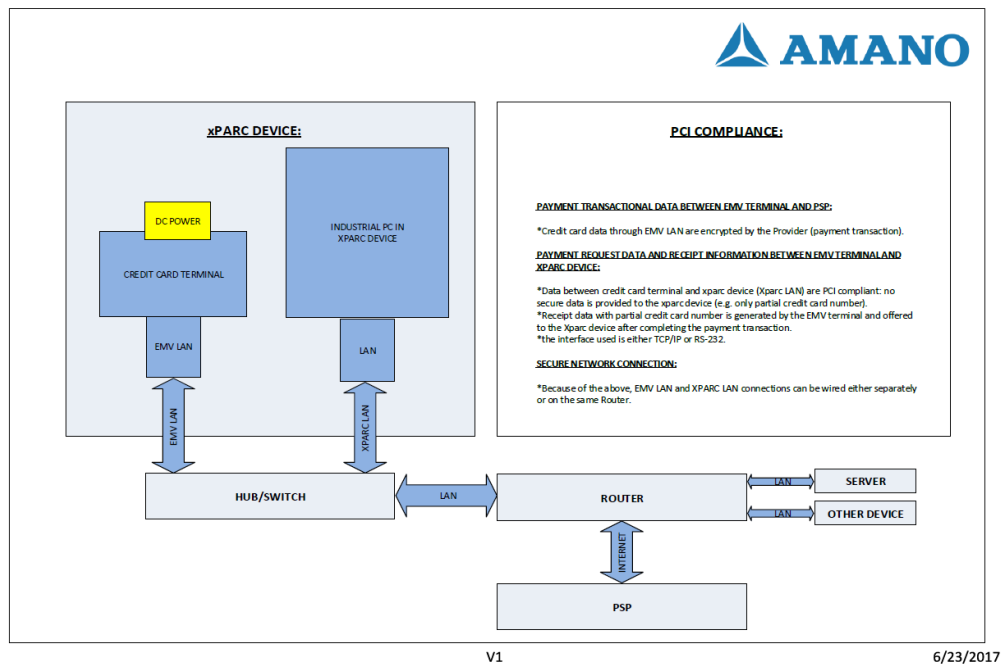
Central Management Functionality



A fully incorporated credit card payment option via an integral 'Chip & Pin and contactless' is include in our proposal.

For the use of credit card payments we will require the availability of a dedicated ADSL line with a static IP address.

Metric Group Ltd is the provider of the Chip & Pin card hardware only. The transaction retrieval and billing service is the responsibility of a third party. We will be happy to discuss authorized payment service providers.



Xoffice is a Web Application that runs on the **Xparc** server. **Xoffice** can also be accessed through any "Workstation".

The server has the following characteristics.

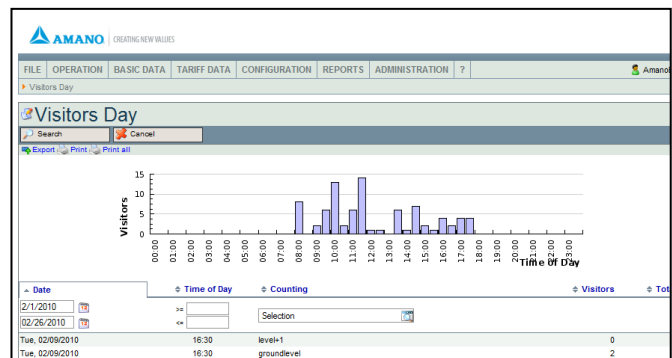
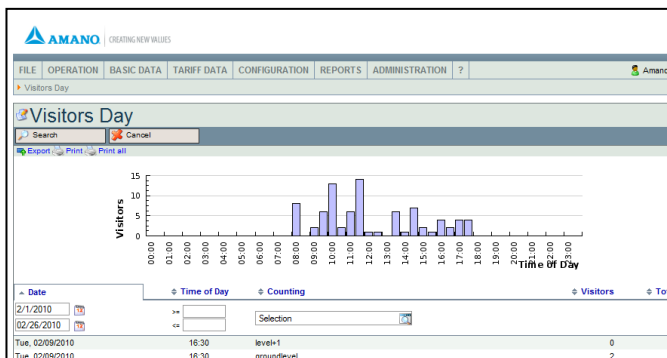
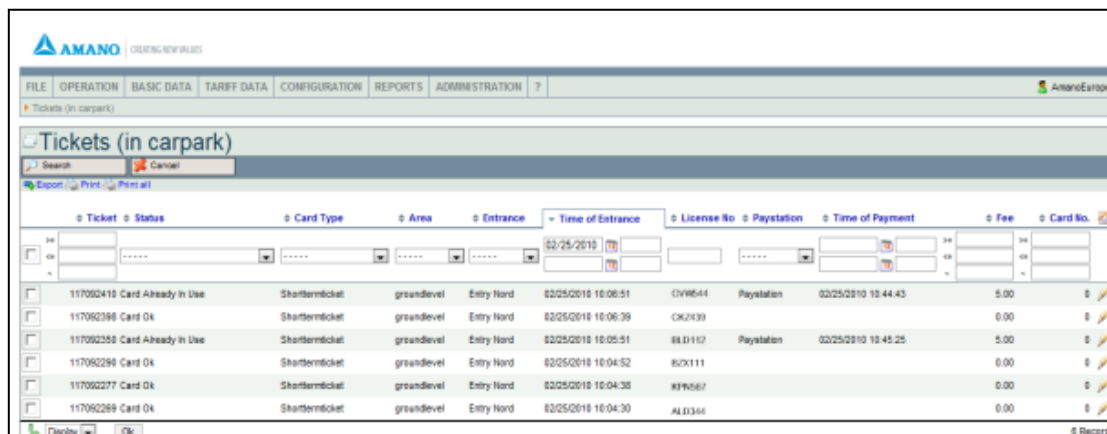
- Operating System: Debian Linux based
- Web Server : Apache Server
- Database System: PostgreSQL
- Virtual PBX : Asterisk Server (for intercom solutions)
- User Interface: Web Browser
- Network: Standard TCP/IP
- Intercom TCP/IP intercom phone

The **Xoffice** system diagram will give an overview of all devices of an **Xparc** system with:

- ✓ Graphical indications for the actual device status
- ✓ Latest event logs
- ✓ Difference counting per area, per level...
- ✓ Alerts (Fire alarm, CO alarm, UPS status...)
- ✓ Ticket history, including license plate (option) details
- ✓ Video surveillance with IP camera's (option). These cameras can be triggered by intercom calls.
- ✓ Cash content

The operator takes full control over the devices

- ✓ Operation: in service/out of service
- ✓ Control the barrier gates
- ✓ Reprint tickets, offer lost ticket functionality
- ✓ Use traffic queue control on the exit

Ticket	Status	Card Type	Area	Entrance	Time of Entrance	License No	Payment	Time of Payment	Fee	Card No.
117092410	Card Already in Use	Shorttermticket	groundlevel	Entry Nord	02/05/2010 10:06:51	GVW644	Payment	02/25/2010 10:44:43	5.00	0
117092398	Card Ok	Shorttermticket	groundlevel	Entry Nord	02/05/2010 10:06:39	OKJ439			0.00	0
117092350	Card Already in Use	Shorttermticket	groundlevel	Entry Nord	02/05/2010 10:05:51	BLD112	Payment	02/25/2010 10:45:25	5.00	0
117092399	Card Ok	Shorttermticket	groundlevel	Entry Nord	02/05/2010 10:04:52	82X111			0.00	0
117092277	Card Ok	Shorttermticket	groundlevel	Entry Nord	02/05/2010 10:04:38	KFW667			0.00	0
117092389	Card Ok	Shorttermticket	groundlevel	Entry Nord	02/05/2010 10:04:30	ALD344			0.00	0

Future Proofing

*We will show you how to protect your investment by enhancing the
core product*



Metric Amano Future proofing

Our work really starts when you become a Metric Amano customer. The Xparc system is scalable and can be upgraded to provide a very powerful management tool.

It's our job to make you aware of the possibilities and to help you get the most from the system in the future.

Here are few examples that may be of interest in the medium to long term future

- The base system is capable of so much more; you can integrate with electrical charging points so it is possible to monitor the use of the spaces are not abused. I.e. only when cars are charging. As Electrical vehicles become more prevalent, this feature will become more relevant to your visitors.
- A dedicated Mobile App for your car park can be downloaded and used for access, reserving and paying for the use, all directly from the APP
- The Xparc back office system can integrate with the Inte Hotel customer management software, to allow guests of the hotel with unfettered access through their stay and then pay for their parking when they check in. the cost of their parking is added to their hotel bill.
- Both ENTRY and EXIT Terminals and APS already have "QR Code Readers" installed in them to have the ability to allow the car park's Users to pre-book their parking and then "Scan in / Scan out" as well as pay for parking on their Smartphone rather than having to visit an Automated Pay Station
- OPTIONAL POET Exit Terminal – "POET" is short for "Pay on Exit Terminal". This is an EXIT terminal which has a credit card payment facility installed within it to allow "Payment on exiting". Again, if a vehicle is leaving the car park but its driver has not remembered to visit a Pay Station before leaving the site they have a "final chance" option of paying at the EXIT Terminal itself by using a credit card.



Despatch and terms of Sale

(General Terms and Conditions of Sale for the United Kingdom)

1. Definitions

In this document the following words shall have the following meanings:

- “Buyer” means the organisation or person who buys the Goods.
- “Goods” means any engineered or mechanical product, ticket, tag, label or other product manufactured or supplied to the Buyer from the Seller. Including without limitation software, digital codes etc.
- “Intellectual Property Rights” means all patents, registered and unregistered designs, copyright, trade-marks, know-how and all other forms of intellectual property wherever in the world enforceable.
- “Seller” means Metric Group Limited, registered at Metric House, Westmead Industrial Estate, Swindon, Wiltshire, SN5 7AD.
- “Contract” means any agreement by the Seller to supply Goods or services to the Buyer.
- “Normal Business Hours” means Monday-Friday (inclusive), between the hours of 8.00-17.00 excluding days on which the banks in England are generally not open.
- “VAT” means value added tax as provided for in the Value Added Tax Act 1994.

2. General

These Terms and Conditions shall apply to sales of Goods by the Seller to the Buyer to the exclusion of all other terms and conditions referred to, offered or relied on by the Buyer whether in negotiation or at any stage in dealings between the parties, including any standard or printed terms tendered by the Buyer, unless the Buyer specifically states in writing, separately from such terms, that it wishes terms to apply and this has been acknowledged by the Seller in writing.

Any variation to these Terms and Conditions (including any special terms and conditions agreed between the parties) shall be inapplicable unless agreed in writing by the Seller and signed by a Director or Company Secretary.

3. Price and Payment

The Seller is to provide a price that shall be current at the time of delivery to the Buyer. The price shall be agreed in writing between the parties. The price is exclusive of VAT or any other applicable costs.

- The Buyer is to provide a valid purchase order to the Seller for the value of the Goods and if applicable the cost of delivery of the Goods to the Buyer. A Buyer new to the Seller will be issued with a Pro-forma invoice and payment will be required before commencement of production of the Goods.

- **Payment Terms For PoF Equipment:**

Should you elect to purchase the equipment outright, our payments terms are

50% of total cost of project due on placement of customer order.

30% of total cost of project due on delivery of equipment to site.

20% of total project cost due on final hand-over of equipment from

Credit terms may be offered for subsequent orders subject to satisfactory credit vetting of the Buyer by the Seller. The offer of credit will be at the discretion of the Seller.

Where credit is offered the price shall become payable within 30 calendar days from the date of delivery of the Goods to the Buyer or the Buyers designated delivery address following the issue of an invoice by the Seller to the Buyer, unless otherwise agreed in writing.

The Seller shall be entitled to charge interest on overdue invoices from the date when the payment becomes due, from day to day until payment is settled, at a rate of 2% per annum above the base rate of the Bank of England.

If payment of the price or any part thereof is not made by the due date, the Seller shall be entitled to;

- Require payment in advance of delivery in relation to any Goods not previously delivered
- Refuse to make any delivery of any undelivered Goods without incurring any liability whatever to the Buyer for non-delivery or any delay in delivery

4. Description

Any description given or applied to the Goods is given by way of identification only and the use of such description shall not constitute a sale by description. For the avoidance of doubt, the Buyer hereby affirms that it does not in any way rely on any description when entering into the contract.

5. Sample

Where a sample of the Goods is shown to and inspected by the Buyer, the parties hereto accept that such a sample is representation in nature and the bulk of the order may differ slightly as a result of the manufacturing process.

6. Delivery

Unless otherwise agreed in writing, delivery of the Goods shall take place to the address specified by the Buyer on, or as close possible to the date required by the Buyer. The Buyer shall make all arrangements necessary to take delivery of the Goods whenever they are tendered for delivery.

If the Seller is unable to deliver the Goods because of actions or circumstances under the control of the Buyer, then the Seller shall be entitled to place Goods in storage until such times as delivery may be affected and the Buyer shall be liable for any expense associated with such storage.

Any delivery dates quoted verbally or otherwise are estimated only and in regard to any such date, time should not be the essence of the contract. Unless otherwise stated or agreed delivery will be by any method of transport at the Sellers option and will incur a supplementary charge. Packaging will be to the standard required for delivery within the UK. Additional charges may be made for special packaging specified by the Buyer.

Part Deliveries

Where an order is in respect of a number of Goods, the Seller reserves the right to despatch all or a number thereof and the Buyer shall accept such deliveries.

Any damages, shortages, over deliveries and duplicated orders should be reported to the Seller within 14 calendar days of signed receipt to enable replacement, repair or refund.

Damaged or Loss of Goods in Transit

Packages and Goods must be examined by the Buyer on receipt and notification of damage or breakage must be sent in writing (via email or Royal Mail) to the Seller and the carrier thereof within 14 calendar days of receipt of the Goods by the Buyer. In the case either of loss in transit or delay in delivery notification in writing (via email or Royal Mail) within 14 calendar days of the date of the advice notes relating to the Goods.

“Unexamined” signatures shall not relieve the Buyer of any liability and the Seller shall not be responsible for any claim if the Buyer fails to comply with this condition.

Delivery Acceptance

The Buyer shall inspect the Goods immediately upon delivery and shall within 14 calendar days from such inspection give writing in notice to the Seller of all matters (if any) by reason whereof the Buyer alleges that the Goods are not in accordance with the contract. If the Buyer shall fail to give such notice the Goods shall be deemed to be in all respects in accordance with the contract and the Buyer shall be bound to accept them and pay for them in accordance with the agreed payment terms.

7. Bill and Hold

The Seller will at the request of the Buyer “Hold” and store finished Goods with the acceptance of the Buyer being billed for the Goods. The terms of payment for the Goods will be as agreed in the terms of 30 calendar days from the date of the invoice, or as agreed by a Company Director or the Company Secretary.

Storage of Finished Goods

The Seller will agree to store the finished Goods for the Buyer at an agreed rate. The warranty will commence from the date at which the Buyer receives delivery of the Goods. The acceptance of the Goods is at the Buyers designated delivery address. The Buyer will provide an additional purchase order to the Seller for the cost of the storage. The cost of storage is calculated on a weekly basis.

8. Warranty

If within 13 months from the date when the Goods are delivered any defects appear in such Goods whether arising from faulty material or poor workmanship the Seller UNDERTAKES to remedy such defects either by replacement or repair,

Provided that;

- Full details of such defects are notified to the Seller in writing within 14 calendar days of its first appearing, and
- The Buyer affords the Seller reasonable access at any time during normal business hours for repairing or replacing any such part or parts or at the Seller’s sole discretion of returning the Goods to any depot of the Seller
- The buyer affords the Seller reasonable access at any time during the period of **this warranty** and normal business hours to inspect the Goods.

BUT this warranty SHALL NOT APPLY to the following;

Defects resulting from fair wear and tear, misuse to the Goods or failure to carry out the maintenance procedures recommended by the Seller. Defects in Goods which have been modified by someone other than an agent appointed by the Seller.

The 13 month warranty period begins on delivery to the Buyer at the designated delivery address.

9. Risk

Risk in the Goods shall pass to the Buyer upon receipt of the Goods. Where the Buyer chooses to collect the Goods itself, risk will pass when the Goods are entrusted to it or set aside for its collection, whichever happens first.

Exclusion of Conditions and Liabilities (including consequential loss)

- These conditions shall override any terms and conditions stipulated, incorporating or referred to by the Buyer in acceptance (whether described as an order or otherwise) or in any prior negotiations.
- Apart from the warranty specified in paragraph 8 and subject to the provisions of the Sale of Goods Act 1979 (as substituted by the Supply of Goods 1982, Implied Terms Act 1973) all guarantees,

conditions or liabilities whatsoever whether expressed or implied by statute, common law or otherwise are hereby excluded and negative.

10. Title Transfer

Title in the Goods shall not pass to the Buyer until the Seller has been paid in full for the Goods.

11. Return of Unused Goods

All Goods are sold on a firm sale basis, i.e. the seller will not take back any Goods not required or sold by the Buyer, unless otherwise agreed, in which case the following terms apply.

- Any returns must be authorised by a representative of the Seller before any credit will be given.
- Where the Seller agrees to accept the return of Goods that are not damaged the Buyer will be responsible for the cost of carriage and will ensure that they are carefully packaged to avoid any damage in transit. The Seller will not be obliged to accept any Goods that are damaged in any way. The Seller will only accept returns that appear in the Sellers current Publication List.
- Credit of amounts due or paid in will only be given for Goods that are in a saleable condition.
- The Seller reserves the right to charge an administration fee to the Buyer for any returned unwanted Goods.

12. Limitation of Liability

The Seller shall not be liable for any all loss or damage suffered by the Buyer in excess of contract price.

Nothing in these Terms and Conditions shall be construed so as to limit or exclude liability of the Seller for death or personal injury as a result of the Sellers negligence or that of its employees or agents.

13. Intellectual Property Rights (IPR)

All Intellectual Property Rights produced from or arising as a result of the performance of this Agreement shall, so far as not already vested, become the absolute property of the Seller, and the Buyer shall do all that is reasonably necessary to ensure that such rights vest in the Seller by the execution of appropriate instruments or the making of agreements with third parties.

14. Force Majeure

The Seller shall not be liable for any delay or failure to perform any of its obligations if the delay or failure results from events or circumstances outside its reasonable control, including but not limited to acts of God, strikes, lock outs, accidents, war, fire, breakdown of plant or machinery or shortage or availability of raw material from a natural source of supply, and the Seller shall be entitled to a reasonable extension of its obligations. If the delay persists for such time as the Seller considers unreasonable, it may, without liability on its part, terminate the contract.

15. Relationship of Parties

Nothing contained in these terms and Conditions shall be construed as establishing or implying any partnership or joint venture between the parties and nothing in these Terms and Conditions shall be deemed to construe either of the parties as the agent of the other.

16. Waiver

The failure by either party to enforce at any time or for any period any one or more of the Terms and Conditions herein shall not be a waiver to them or of the right at any time subsequently to enforce all Terms and Conditions of the Agreement.

17. Severability

If any term or provision of the Terms and Conditions is held invalid, illegal or unenforceable for any reason by any court of competent jurisdiction such provision shall be served and the remainder of the provisions hereof shall continue in full force and effect as if the Terms and Conditions had been agreed with the invalid, illegal or unenforceable provision eliminated.

18. Arbitration

All disputes, differences or questions at any time arising between the Seller and the Buyer as to the construction of the Contract or as to any matter or thing arising out of the Contract or in any way connected herewith shall be referred to the arbitration of a single arbitrator who shall be agreed between the Seller and the Buyer or who failing such agreement shall be appointed at the request of either party by the President for the time being of the Law Society. The arbitration shall be in accordance with the Arbitration Act 2015 and any statutory modification or re-enactment thereof for the time being in force.

19. Governing Law and Jurisdiction

This agreement shall be governed by and construed in accordance with the Laws of England and the parties hereby submit to the exclusive jurisdiction of the English Courts.

20. Errors and Omissions

The Seller shall be entitled to correct at any time any arithmetical or typographical error or omission.

Specific Conditions Relating to Engineering Products

Performance and Drawings Etc.

All particulars given by the Seller relating to technical performance, dimensions, capacity, output, consumption and weight of any products and all illustrations, descriptions, specifications and drawings are given as accurately as possible but are approximate only and all such material contained in brochures, catalogues price lists and other advertising matter is intended merely to present a general idea of the products described therein and none such material shall form part of the contract.

Modifications

Every effort is made to ensure that the latest specification and design are available and the Seller reserves the right to incorporate minor changes in design, construction, composition, materials arrangements or equipment as it shall think fit without notifying the Buyer and to supply products which may not be in strict accordance with agreed specifications.

Patents and IPR

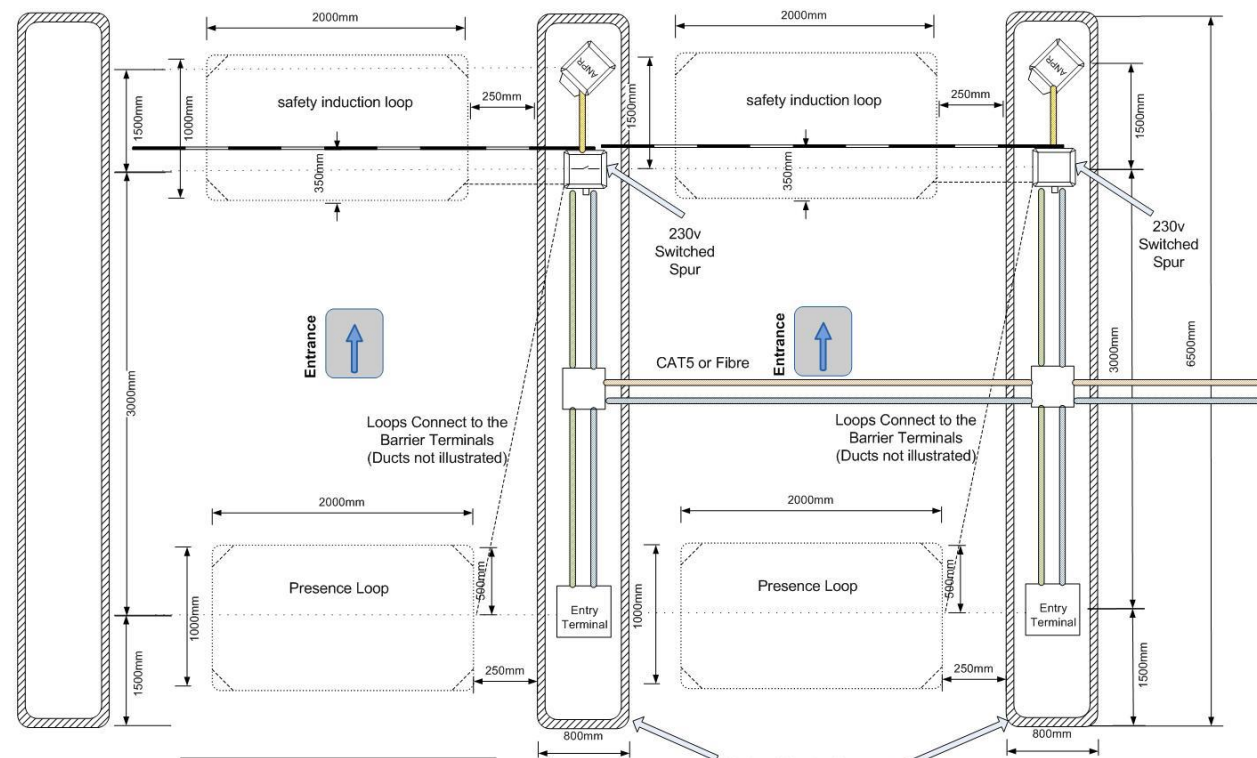
The Seller agrees to indemnify the Buyer to indemnify the Seller against damages, charges, liabilities, costs and expenses which may be incurred or sustained by it by reason of or arising directly or indirectly out of any third party claims or rights or otherwise. Howsoever in respect of any products manufactured or services supplied in accordance with any specification design, information, equipment or instruction given by or on behalf of the Seller and whether relating to the infringement or the alleged infringement of a Patent Copyright Registered design or other protected industrial right or property or otherwise howsoever.

Design Rights

The property in the design of the Goods covered by the contract shall, subject to any existing rights of any third party in any design or invention incorporated or used in the design of the products, remain exclusively the Sellers property and neither the Buyer nor any agent, contractor or other person authorised by the Buyer nor any other person, firm or Company shall at any time use the design or any part thereof.

Software

The copyright in all operating and application software provided by the Seller for use in the Sellers machines, or systems, together with appropriate documentation, remains vested in the Seller. All rights are reserved. Software, including appropriate documentation shall not, in whole or part, be modified, copied or reproduced, or transferred to any electronic medium machine readable without prior written consent from a Director or Company Secretary of the Seller.



Note: Barrier unit and Entry/Exit Terminal are connected with a 12 Way YY Control Cable

Mains Cable Ducts –
50mm diameter

Data Cable Ducts –
50mm Diameter

Single Duct – 50mm
diameter

Drawing Not to Scale

Product : Entry Lane Terminals & Barriers with ANPR

Drawing Description : Access Lane Dimensions

Version : 1.0

METRIC
GROUP