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SMART PAYOUT MANUAL SET – SECTION 6

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TECHNICAL APPENDICES

APPENDIX A - PRODUCT APPROVALS

CE Marking

The SMART Payout unit described in this manual set has been designed to comply with the relevant sections of the following Harmonised European Standards:

- EN60950-1:2001
- EN60335-1:2002
- EN60335-2-82:2003

The unit complies with all the applicable essential requirements of the Standards.

RoHS

The following products, identified by the part numbers listed in the table below, are compliant with the European Union Directive 2002/95/EC of the Restriction of the use of certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment.

Product	Description	Lead free date
NV200	Bank Note Acceptor Assembly	All NV200
SMART Payout	Note Payout Assembly	All SMART Payout

We hereby declare that lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (Cr4-6), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE), are not intentionally added to our products in amounts exceeding the maximum concentration values as defined by RoHS regulations (except where the application of any of those substances comes within the scope of the RoHS regulations exempted applications).

All compliant products are clearly marked on the product and/or packaging.

All the information provided in this statement of compliance is accurate to the best of our knowledge, as of the date of this publication being issued.

WEEE

The European Union's directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) was adopted by the European Council and Parliament in 2003 with a view to improving the collection and recycling of Waste Electrical and Electronic Equipment throughout the EU, and to reduce the level of non-recycled waste. The directive was implemented into law by many EU member states during 2005 and 2006.



Products and packaging that display the symbol (shown left) indicates that this product must NOT be disposed of with other waste. Instead it is the user's responsibility to dispose of their Waste Electrical and Electronic Equipment by handing it over to an approved reprocessor, or by returning it to the original equipment manufacturer for reprocessing.



APPENDIX B – TECHNICAL SPECIFICATIONS

The information contained here does not form part of a contract and is subject to change without notice. Innovative Technology Ltd operates a policy of continual product development; as such specifications may change from time to time.

Environment:

	Minimum	Maximum
Temperature	+3 °C	+50 °C
Humidity	5 %	95 % non condensing

Power Requirements:

(Total power requirements of the NV200 with the SMART Payout unit fitted)

DC Voltage	Minimum	Nominal	Maximum
Absolute limits	10.8 V	12 V	13.2 V
Supply ripple voltage	0 V	0V	0.25 V @ 100 Hz
Supply Current (when connected to an NV200):			
Standby			400 mA
Running			3 A
Peak (motor stall)			5 A

We recommend that your power supply is capable of supplying 12V DC at 6.3 A.

TDK Lambda produces a suitable power supply (model SWS75-12). This power supply is available from a variety of suppliers including Farnell (stock code 1184648) and RS (stock code 466-5904).

Logic Levels:

Interface Logic Levels	Logic Low	Logic High
Inputs	0 V to 0.5 V	+3.7 V to +12 V
Outputs (2.2 kΩ pull-up)	0.6 V	Pull-up voltage of host interface
Maximum current sink		50 mA per output



General Specifications:

Note Sizes	Minimum	Maximum
Width	60 mm	85 mm
Length	115 mm	170 mm

Capacity	
Storage	Up to 70 notes in Payout Module; 500 or 1000 notes in NV200
Payout	Up to 70 mixed notes

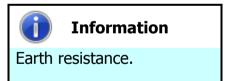
Weight		
Payout Module	2.6 kg	
NV200	2.9 kg	
Combined	5.5 kg	

Interface Protocol		
	eSSP; ccTalk (CC2)	

Earth Bonding:

It is **very** important that the cashbox chassis is bonded to earth, as lack of proper bonding can cause communication issues and failures with the SMART Payout unit.

The earth bond should be made to any of the 8 holes in the side of the cashbox and be bonded to mains earth, typically through the Power Supply Unit.



The resistance between the cashbox and the Earth pin on the mains plug should be less than 0.7 ohms.



APPENDIX C – GLOSSARY OF TERMS

Term Meaning

Α **Ampere**

AC **Alternating Current**

ACK Acknowledge

AES Advanced Encryption Standard

ASSY Assembly

AV Average

AWG American Wire Gauge

AWP Amusement With Prizes

BNV Bank Note Validator

ccTalk Coin Controls Talk

COMMS Communications

CRC Cyclic Redundancy Check

DC **Direct Current**

DIA Diameter

DIP Dual Inline Package

ECB Electronic Code Book

EEPROM Electrically Erasable Programmable Read Only

Memory

eSSP Encrypted Smiley® Secure Protocol

FAQ Frequently Asked Questions

GA **General Assembly**

GND Ground

Hz Hertz

ITL Innovative Technology Ltd

Meaning Term

LED Light Emitting Diode

mA milliampere

maximum max

MDB Multi Drop Bus

min minimum

mm millimetre

millisecond ms

MOD Modified (or Modification)

Note Validator NV

PCB Printed Circuit Board

PDF Portable Document Format

PiPS Pay-in Pay-out System

PROM Programmable Read Only Memory

PSU Power Supply Unit

QTY Quantity

RAM Random Access Memory

ROM Read Only Memory

Rx Receive

RoHS Restriction of the use of certain Hazardous

Substances

SIO Serial Input Output

Smiley® Secure Protocol **SSP**

SWG Standard Wire Gauge

SWP Skill With Prizes

SYNC Synchronize

Term	Meaning
TTL	Transistor Transistor Logic
Тх	Transmit
USB	Universal Serial Bus
V	Volt
V_In	Voltage In
WEEE	Waste Electrical and Electronic Equipment



APPENDIX D - ORDERING INFORMATION

The following information is required to order a SMART Payout unit:

Product	SMART Payout	Consists of NV200 validator, cash box chassis and payout module
Dataset	Country code and variant	Alternatively supply details of the currency and note types you wish to use
Bezel Size	85 mm	This is the only bezel size available for SMART Payout
Bezel Colour	RGB code or text description	
Cash Box	500 or 1000 note capacity	
Interface	eSSP or ccTalk	

