RFID Technologies at Presidency University, Bangalore



RFID

- RFID (Radio Frequency Identification) is a technology that tracks and identifies tags attached to objects using wireless technology.
- Every RFID-secured library book will have RFID tag struck in the secret place.
- This tag interacts with the security gate sensors.
- Gates raises an alarm when anyone tries to steal a book.
- The security of Library resources can be made more effective.



RFID tags





Presidency University Library
Itgalpur, Rajanakunte, Yelahanka

Bangalore - 560 064

Please remember this resource is meant for many other users like you, so do not tamper, tear or damage the contents.

We believe that this is an individual social responsibility to take care of the library material.

Please do check before you borrow it as you may have to compensate as per the library rule, if the material is returned in a damaged condition.

Parameter	RRHFT01
Supported	ISO 15693,
Standards	ISO 18000-3
Transponder IC	I-Code SLI
Operating Frequency	13.56 MHz
Transmission Principle	ASK / FSK
User Programmable Memory	Upto 2048 Bits
Data Retention	40 Years
Programming Cycles	100000
Operating Temperature	-25°C to +70°C
Storage Temperature	-40°C to +85°C
Dimensions	Available in various dimensions and shapes



Readers



Parameter	RRHFLB03
Operating Frequency	13.56 MHz
Power Supply	USB Self Powered
Power Consumption	500 mW max
Transmitting Power	200 mW approx.
Read Range _*	Up to 25 cm
Antenna	Internal
Communication Interface	USB (HID)
Supported	ISO 15693 and ISO
Transponders	14443A
Indicators	Buzzer for read verification
Operating Temperature	0°C to +60°C
Dimensions	340 X 340 X 20 mm
Weight	Approx. 3 kg.
Housing Material	Corian Acrylic Polymer
Color	White



RFID Gate Antenna



RRHFGA3 is a three pedestal antenna to cover wider area for reading of tags.

*	PRESIDENCY	40
GAIR WORE KNOWLEDGE REACH GREATER HEIGHTS	UNIVERSITY	YEARS
MEMOR BREALCH INTROVAL	ly Estd. in Karnataka State by Act No. 41 of 2013	WISDON

Specificat	ions
Parameter	RRHFGA3
Operating Frequency	13.56 MHz
Power Supply	AC 230V / 50Hz
Power consumption	30W max
Transmitting Power	0.5W to 6W variable
Read Range*	Up to 1 m with pair of Gates
Communication Interface	RS-232 / Ethernet
Supported Transponders	ISO 15693
Operating Temperature	-10°C to +60°C
Communication Parameters	Baudrate: 115200 bps
Dimensions	1530 X 550 X 30 mm
Weight (1 Panel)	20kg
Housing Material	ABS

Self Check-In Check-Out Kiosk



RRHFLB02 is a stand alone multi protocol self check-in check-out kiosk primarily for issue and return of books in Library

Specifi	cations
Parameter	RRHFLB02
Operating Frequency	13.56 MHz
Power Supply	240 V AC 50Hz
Transmitting Power	200mW approx.
Read Range*	3 to 4 books of average size (Up to 250 mm)
Antenna Size	300 X 300 mm
Communication Interface	Ethernet
Supported Transponders	ISO 15693 and ISO 14443A
Operating Temperature	-10°C to +70°C
Dimensions	585 X 585 X 1475 mm
Weight	100 kg approx.
Display	17" LED touchscreen display





RRHFBD01 is stand alone book return station primarily used for returning library books.

Book Drop Box

Specifi	cations
Parameter	RRHFBD01
Operating Frequency	13.56 MHz
Power Supply	240 V AC 50Hz
Transmitting Power	200mW
Cart Size	Up to 150 books
Drop Method	One book at a time
Antenna Size	300 X 300 mm
Communication Interface	Ethernet
Supported Transponders	ISO 15693-3 ICODE
Operating Temperature	-10°C to +70°C
Dimensions	915 X 717 X 1664 mm
Weight	150 kg approx.
Display	17" LED touchscreen display



Handheld Reader



RRHFHH3 is a high end handheld reader loaded with WIN CE platform for easy application development.

Specifi	cations
Parameter	RRHFHH3
Operating Frequency	13.56 MHZ
Power Supply	5 V / 3 A DC Adapter
Antenna	Internal Antenna
Main Battery	Lithium lon 3.7V, 2800mAh (Rechargeable)
CPU	CPU
Transmitting Power	Upto 1 W max.
Read Range	Up to 10cm*
Communication Interface	USB
Supported Transponders	ISO 18000-3 Mode 1
Indicators	Touchscreen Display, Buzzer
Operating Temperature	0°C to 40°C
Storage Memory	Expandable Upto 1 GB
Weight	500 gms approx.
Dimensions	500 gms approx.



Login Page

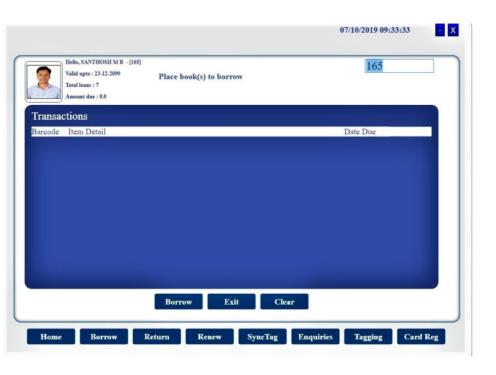
Home Page

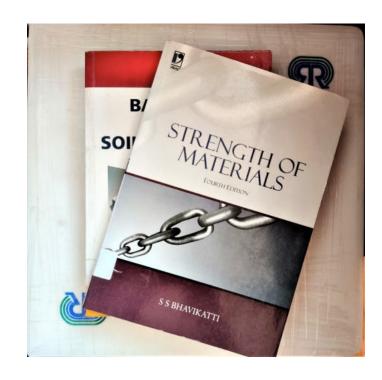
		07/10/2019 09:31:10	- X
UserName: Password:	Login Exit		
Home Borrow Return	Renew SyncTag	g Enquiries Tagging Ca	rd Reg





Book Borrow



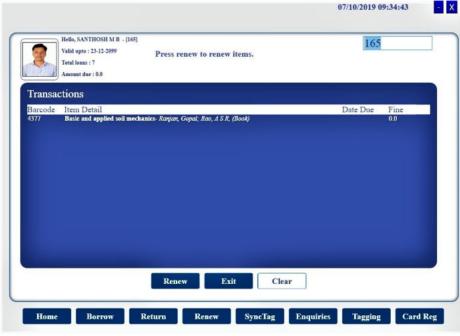




Return

Renew





Synchronize

Enquiry







Tag Show

Tagging

		07/10/	2019 09:35:44
Barcode: 4377	□Force		
Basic and applied soil mechanics-Ranjai Class - 624.15136 RAN, Isbn - 978812244 Publisher - New Age International Limited Status - AvailableOnShelf	0393		
Tag found Type : ISO15693 Uid	: E0040150618FD245		
Shor	w Tag Cano	eel Exit	



