**Overview**

Indigenously developed product to display Radioactive material (K, U and Th) concentrations. It is a low cost product and compatible for field use due to rugged design. The software supports data acquisition, interface, data storage and data transfer.

**Features**

* Display of K, U, Th concentrations, dose rate with a user selectable sample  
  time (Acquisition time)
* Data Logging
* Rugged Design to withstand field usage
* Dynamic range: 10 to 3000 KeV
* Resolution: < 7%, FWHM at 662 KeV, <5% at 1.33 MeV
* Count rate: 50,000 cps
* Supports data acquisition, transfer of data, interface and storage
* Offline software supports Spectrum processing
* Digital potentiometer for calibration

**Application Areas**

* Monitoring Airports, Shipping Yards & Nuclear Facilities
* Radiation Detection
* Toxic dump site monitoring
* Atomic Research
* Awareness in Educational Institutions

**Available Models**

* AGRS203
* AGRS202
* AGRS102

**Technical Specifications of AGRS203**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Processor | CPU | High Speed ARM Cortex A8 |
| Speed | 1GHz |
| C:\Users\Aamani\Downloads\2-OperatingSystem.png | Operating System | OS | Linux |
| C:\Users\Aamani\Downloads\3-Memory.png | Memory | RAM | 512MB |
| Flash | 4GB |
| C:\Users\Aamani\Downloads\4-CommunicationPort.png | Communication Ports | USB | USB 2.0 Host, USB 2.0 Client |
| C:\Users\Aamani\Downloads\6-Power.png | Power | Battery | Rechargeable Li-Ion battery, 2600mAh |
| C:\Users\Aamani\Downloads\8-Optional.png | Other features | In-built | Auto calibration with Cesium and Potassium  GPS (internal)  Real Time Clock  WiFi  Audio |
| Indications | Charge LED & Power On LED |
| Detector | Standard detector 3” x 3” NaI with PMT |
| C:\Users\Aamani\Downloads\7-DisplayKeypad.png | Display & Keypad | Display | 3.5” QVGA TFT w/ Touch Panel |
| Keypad | 5 keys (Up, Down, Calibration, Menu, OK) |
| C:\Users\Aamani\Downloads\9-Dimensions.png | Dimensions | L x W x H in mm | 260 x 100 x 110 |
| Weight | < 2.5kgs |
| C:\Users\Aamani\Downloads\10-Operating.png | Operating Conditions | Operating Temperature | 0°C to +50°C |

**Technical Specifications of AGRS202**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Processor | CPU | High Speed ARM Cortex A8 |
| Speed | 1GHz |
| C:\Users\Aamani\Downloads\2-OperatingSystem.png | Operating System | OS | Linux |
| C:\Users\Aamani\Downloads\3-Memory.png | Memory | RAM | 512MB |
| Flash | 4GB |
| C:\Users\Aamani\Downloads\4-CommunicationPort.png | Communication Ports | USB | USB 2.0 Host, USB 2.0 Client |
| C:\Users\Aamani\Downloads\6-Power.png | Power | Battery | Rechargeable Li-Ion battery, 2600mAh |
| C:\Users\Aamani\Downloads\8-Optional.png | Other features | In-built | Auto calibration with Cesium and Potassium  GPS (internal)  Real Time Clock  WiFi  Audio |
| Indications | Charge LED & Power On LED |
| Detector | Standard detector 2” x 2” NaI with PMT |
| C:\Users\Aamani\Downloads\7-DisplayKeypad.png | Display & Keypad | Display | 3.5” QVGA TFT w/ Touch Panel |
| Keypad | 5 keys (Up, Down, Calibration, Menu, OK) |
| C:\Users\Aamani\Downloads\9-Dimensions.png | Dimensions | L x W x H in mm | 260 x 100 x 110 |
| Weight | < 2.5kgs |
| C:\Users\Aamani\Downloads\10-Operating.png | Operating Conditions | Operating Temperature | 0°C to +50°C |

**Technical Specifications of AGRS102**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Processor | CPU | ARM 9 |
| Speed | 180MHz |
| C:\Users\Aamani\Downloads\2-OperatingSystem.png | Operating System | OS | Linux |
| C:\Users\Aamani\Downloads\3-Memory.png | Memory | RAM | 64MB |
| Flash | 256MB |
| C:\Users\Aamani\Downloads\4-CommunicationPort.png | Communication Ports | USB | USB 2.0 Host, USB 2.0 Client |
| C:\Users\Aamani\Downloads\6-Power.png | Power | Battery | Rechargeable Li-Ion battery, 2600mAh |
| C:\Users\Aamani\Downloads\8-Optional.png | Other features | In-built | Auto calibration with Cesium and Potassium  GPS (internal)  Real Time Clock  WiFi  Audio |
| Indications | Charge LED & Power On LED |
| Detector | Standard detector 3” x 3” NaI with PMT |
| C:\Users\Aamani\Downloads\7-DisplayKeypad.png | Display & Keypad | Display | 3.5” QVGA TFT w/ Touch Panel |
| Keypad | 5 keys (Up, Down, Calibration, Menu, OK) |
| C:\Users\Aamani\Downloads\9-Dimensions.png | Dimensions | L x W x H in mm | 260 x 100 x 110 |
| Weight | < 3kgs |
| C:\Users\Aamani\Downloads\10-Operating.png | Operating Conditions | Operating Temperature | 0°C to +50°C |