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| **Data Logger** |
| **System** |
| **Display** | * Digital display for viewing the latest data. Must be easily viewed in direct sunlight.
* Keyboard function to allow the adjustment of datums and viewing of data on display (must be built into the data logger module, no external boards or or displays allowed).
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| **Sensor Input** | * 4 analog input (this will be built into the data logger module, no external boards or circuits allowed)
* 2 digital input (different than digital output) This will be directly built into the data logger module, no external boards or circuitry allowed
* 2 digital output (programmable) This will be built into the data logger module, no external boars or circuits allowed
* 1 tipping bucket input (This will be built into the data logger module, no external boards or circuits allowed)
* SDI-12; allowing connection to 10 SDI-12 devices with 5 parameters per device
* Other inputs required by sensors being installed at station
* A/D resolution 16 bits or better
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| **I/O Interface** | * 2 input interfaces for the use of data communication, including simultaneous use of any 2 data communications radios/systems (i.e. INSAT, VSAT, GSM/GPRS, Interrogated Radio, ALERT Radio) This will be built into the data logger module, no external boards or circuitry allowed
* 1 input/output interface for the programming of the data collection platform. This must be in addition to the two input/output interfaces used for data communication. Cables for programming shall be included with each data logger.
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| **Software** | * Unlimited licenses for the software used for data communication
* Software compatible with TABLET Device, such as Apple iPad, or Android Based System and/or Laptop Device, running Windows most current version.
* Software language in English
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| **Data Storage** | * Storage of one year of data, expandable to 1 GB or better
* Memory for data storage shall be non-volatile. Data stored will not be lost in the event of power interruption or system reset.
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| **Power** |
| **Voltage** | * 11-15 V DC
* Data collection platform shall survive reverse polarity connections (system will operate normally when polarity is applied properly without any other changes, such as fuses)
* If Data Collection Platform power is interrupted the platform will have the option to restart data collection and transmissions automatically, and without technician intervention.
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| **Environmental** |
| **Humidity** | 0 to 95% operational and storage (non-condensing) |
| **Temperature** | -10 ˚ C - + 60 ˚ C operational and storage |
| **Other Requirements** |
| **Mounting** | * The data logger shall be easy to dismount and replace in the event of malfunction.
* Data logger mounting supports and other accessories included.
* All wire runs between the data logger, sensors and power supply shall be similarly designed.
* All parts, cables, components required to successfully operate the products as a complete system.
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| **Tools and Manuals** | * Complete toolkit for installation and routine maintenance giving full details. (number of pieces and type)
* Full documentation and maintenance instructions in English. (1 per station)
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| **Other** | * Manufacturer’s Guarantee that the Make/Model will be supported for repair for a minimum of 10 years from the Date of Commissioning.
* The solution offered, as specified, must have had a minimum of 200 models sold over the past year. Customer reference details may be required.
* This is to a commercially off the shelf solution that has been in production as a single component for at least one year.
* The data logger must be a single module, with a single serial number, and replaceable as a single component.
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Items in RED are to be used for the Bid Evaluation Review (BER).