AquaSpy™ Data Node

The Data Node is a low cost, stand-alone data storage unit. Its large memory capacity and ultra-low power consumption facilitates months of secure and reliable data logging. Software is included to facilitate manual data collection and the viewing of data on a PC. The intelligent ‘universal plug and play’ system is self-configuring and starts logging sensor data immediately upon connection.

Intelligent Data Logging

- 1 x Serial Sensor Channel (4-pin Switchcraft connector) configurable for RS-485 (AO protocol only)
- 1 x EXT PWR input (3-pin Switchcraft connector) for external power only
- 1 x Rittal breather valve
- Internal sensors measure battery voltage and solar/household electricity (when connected)
- Button cell battery maintains time/date settings when powered off
- Includes 3 internal communication ports:
  - IrDA
  - RS-232
  - USB (Type B)
- Choice of power options:
  - Dry cell batteries (8 x Csize x 1.5V 4700mAH )
  - Household electricity (12VDC power supply)
  - Solar & rechargeable battery (1 x sub Csize NiMH 1.2V 3000mAH 8 pack)
- An internal powered Data Node (dry cell batteries), when connected to an AquaSpy Probe 40” (10 sensors), has a battery life of 75 days ± 20% (depending on environmental conditions)
- An external powered Data Node (household electricity/solar) has a battery life dependent upon the life span of the rechargeable battery. In blackout conditions (no charge), when connected to an AquaSpy Probe 40” (10 sensors), the battery life = 30 days ± 20% (depending on environmental conditions)
- ‘Field Utility’ software tool included to enable testing and reconfiguration of the Data Node as required
- Software suite (Windows 2000/XP compatible) included providing flexible data collection and advanced data display features
- Fibox enclosure:
  - 7.09” x 7.09” x 3.94”
  - Polycarbonate construction
  - -40°F to + 176°F
  - Ingress protection IP66/67
  - Total electrical insulation
  - UV resistance UL508
  - Flammability rating UL945V
  - NEMA classes 1, 4, 4X, 6, 12 & 13
- Transparent enclosure door facilitates IrDA downloads
- Reports health status:
  - Battery voltage
  - Solar/Household Electricity supply voltage (when connected)
- Self-configuring universal ‘plug and play’ technology
- One year warranty