

AquaSpy™ Data Node

Technical Specifications

Specifications subject to change without prior notice



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)
- 2Mb of data storage capacity:
 - With a single sensor connected there is ~377 days of data storage
 - With an AquaSpy Probe 40" (10 sensors) connected there is ~287 days of data storage
- 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 \pm 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 \pm 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 (only with fixing screws)
 - Impact resistance IK08
 - 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