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Automatic Water Level Recorder System

Constant Bubble Type AL-131-BS

ABOUT:

The AL-131-BS is a purpose built automatic water level recording system which combines the worlds best data logging equipment, water level sensing instrumentation and state of the art supporting hardware and software

FEATURES:

- Built for harsh environments with the toughest Stainless Steel enclosure for long life. Design protects against harsh weather with sloping roof to protect from heavy rain and reflects heat away to keep instrumentation cool. Is fully sealed, has louvered vents for airflow and mesh for protection against insects.
- The enclosure door is fitted with a security switch and a waterproof LCD scrolling display enabling real time data to be viewed without the need to access the data logger.
- The Bubble System is equipped with its own LCD and push buttons for configuration and setting the water level
- Because of the high quality fit for purpose components used in the AL-131-BS means installation is quick, operation is user friendly, and will provide years of reliable trouble free service.
- The system requires minimal onsite maintenance with the ability to add additional monitoring instrumentation.
- The system allows for integration with either cloud based or enterprise SCADA systems, using GSM, Radio Telemetry, Satellite,or cable.
- All solutions are configurable according to individual requirements
- Highly accurate and reliable results are guaranteed if installed in accordance with our instructions

APPLICATIONS:

- Dam reservoir water level monitoring
- Catchment water level monitoring
- Many other general water level monitoring purposes

SPECIFICATIONS:

- 316 Stainless Steel IP66 enclosure complete with 30 degrees sloping roof for outdoor deployment,.
- HYQUEST Air Bubble System including pressure sensor to 30m range
- Campbell Scientific CR800 or CR310 data logger, program and CD295 font door mounted Dataview for external viewing of water level
- Solar regulator and 20W solar panel and bracket
- Electrical main switch, fuses and terminals earth cable and fittings
- Security Door Switch
- Drawings and Manuals Included
- Telemetry options include: GSM, Satellite, Radio Transmission, RS485 or Fibre Optic cable

Telemetry Options:	AL-131-BS (no Telemetry) AL-131-BS-GSM (with GSM Telemetry) AL-131-BS-RT (with Radio Telemetry)
Power	Max Power Consumption 35A Solar Panel Size: 12V 20W Batteries : 2 x 212V 28Ah Solar Regulator: 12V 5A AC powered version available upon request
Enclosure:	IP66 SS 316 Two door locks 2 air vents
Data Logger:	12V DC, <1mA quiescent
Temperature Display:	12V LCD
Pressure Line:	200m of pressure tubing
Outlet:	Gas Chamber Orifice with fittings
Range:	50m
Packed Dimensions:	66cm x 115cm x 33cm weight: 51kg

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Automatic Water Level Recording Float System

AL-131 Series

ABOUT:

The AL-131-FS is a simple method of measuring water level is a stilling well equipped with a float and shaft encoder. The components of this type of gauge include

- A stilling well,
- Inlet pipes from the water,
- Float tape,
- Wheel and shaft encoder which electronically sends signals to the data collection platform (pictured above)

FEATURES:

- Built for harsh environments with the toughest Stainless Steel enclosure for long life. Design protects against harsh weather with sloping roof to protect from heavy rain and reflects heat away to keep instrumentation cool. Is fully sealed, has louvered vents for airflow and mesh for protection against insects.
- The enclosure door is fitted with a security switch and a waterproof LCD scrolling display enabling real time data to be viewed without the need to access the data logger.
- The Shaft Encoder is equipped with its own LCD and push buttons for configuration and setting the water level
- The float system is suited for retrofit to existing systems or for new applications where a floatwell system is economically viable.
- The system requires minimal onsite maintenance with the ability to add additional monitoring instrumentation.
- The system allows for integration with either cloud based or enterprise SCADA systems, using GSM, Radio Telemetry, Satellite,or cable.
- All solutions are configurable according to individual requirements
- Highly accurate and reliable results are guaranteed if installed in accordance with our instructions.

APPLICATIONS:

- Dam reservoir water level monitoring
- Catchment water level monitoring

SPECIFICATIONS:

- Stainless Steel fully sealed enclosure complete with 30 degrees sloping roof for outdoor deployment,.
- Automatic Water Level Recorder System complete with Shaft Encoder and Float system
- < 25m uses Single Wire System
- > 25m uses Endless Wire System
- Campbell Scientific CR800 data logger, program and CD295 External Dataview for external viewing of water level
- Solar regulator and 20W solar panel and bracket
- Electrical main switch, fuses and terminals earth cable and fittings
- Security Door Switch
- Drawings and Manuals Included
- Telemetry options include: GSM, Satellite, Radio Transmission, RS485 or Fibre Optic cable

Telemetry Options:	AWL-131-BS Standalone AWL-131-BS-GSM (with GSM Telemetry) AWL-131-BS-RT (with Radio Telemetry)
Power	12V DC, 0.5A maximum 12V 20W 12V 56Ah minimum Use 2 x 12V 28Ah in parallel
Enclosure:	P65 SS 316 Two door locks 2 air vents
Data Logger:	12V DC, <1mA quiescent
Display:	12V LCD
Pressure Line:	200m of pressure tubing
Outlet:	Gas Chamber Orifice with fittings
Packed Dimensions:	

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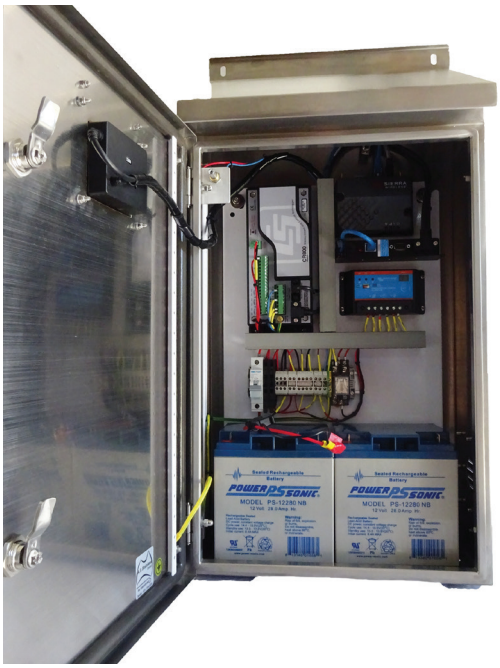

Radar Sensors
VEGAPLUS
WL S61

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Automatic Water Level Recording Radar Sensor System

AL-131-RS Series

ABOUT:

The AL-131-RS is a purpose built automatic water level recording system which combines the worlds best data logging equipment, with the worlds best Radar Sensors.

Multiple sensors can attach to the data logger provide accurate readings from specific locations that are unsuitable for cabinet

FEATURES:

- Built for harsh environments with the toughest Stainless Steel enclosure for long life. Design protects against harsh weather with sloping roof to protect from heavy rain and reflects heat away to keep instrumentation cool. Is fully sealed, has louvered vents for airflow and mesh for protection against insects.
- The enclosure door is fitted with a security switch and a waterproof LCD scrolling display enabling real time data to be viewed without the need to access the data logger.
- Setting the water level is undertaken using a notebook device
- The radar based system is ideal for V-Notch weir monitoring providing repeatable and accurate measurements. Other applications include locations where a suitable mount for a radar sensor is available or can be constructed.
- The system requires minimal onsite maintenance with the ability to add additional monitoring instrumentation.
- The system allows for integration with either cloud based or enterprise SCADA systems, using GSM, Radio Telemetry, Satellite,or cable.
- All solutions are configurable according to individual requirements
- Highly accurate and reliable results are guaranteed if installed in accordance with our instructions.

APPLICATIONS:

- Dam reservoir water level monitoring
- Catchment water level monitoring
- V-Notch water level and seepage monitoring

SPECIFICATIONS:

- Stainless Steel fully sealed enclosure complete with 30 degrees sloping roof for outdoor deployment,.
- Radar Sensor- the VEGAPULS WL S 61r
- V-notch Structure
- Campbell Scientific CR800 data logger, program and CD295 External Dataview for external viewing of water level
- Solar regulator and 20W solar panel and bracket
- Electrical main switch, fuses and terminals earth cable and fittings
- Security Door Switch
- Drawings and Manuals Included
- Telemetry options include: GSM, Satellite, Radio Transmission, RS485 or Fibre Optic cable

Telemetry Options:	AWL-131-RS no Telemetry AWL-131-RS-GSM (with GSM Telemetry) AWL-131-RS-RT (with Radio Telemetry)
Power	Max Power Consumption 35A Solar Panel Size: 12V 20W Batteries : 2 x 212V 28Ah Solar Regulator: 12V 5A AC powered version available upon request
Enclosure:	Enclosure 1 - IP66 S Sloping Roof Two door locks 2 air vents
Data Logger:	12V DC, <1mA quiescent
Temperature Display:	12V LCD
Pressure Line:	200m of pressure tubing
Range:	50M
Packed Dimensions:	44cm x 90cm x 27cm size 21kg weight

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AUTOMATIC RAINFALL RECORDING SYSTEM ARR - Series

ABOUT:

The ARR-200 is a 200mm diameter 0.2mm, 0.5mm or 1.00mm Tipping Bucket Rain Gauge complete with Calibration Certificate. Telemetry System – GSM including: AL-131 316 enclosure with sloping roof and insect meshed ventilation and mounting brackets

FEATURES:

- Resolutions are available in 0.2mm 0.5mm and 1.0
- Accuracy: 0-250mm per hour +/-2% and 250-500mm per hour +/-3%
- Range 700mm per hour
- Enclosure Powder-coated aluminium
- Base Powder-coated aluminium
- Pivots Ground sapphire pivots with hard stainless steel shaft
- Bucket Material, available in painted brass OR chrome plated ABS

APPLICATIONS:

- Use for Real Time Data Acquisition where GSM packet data service is available and application is for non-critical purposes.
- Use with Emalte Enterprise, SCADA and Cloud based eagle.io
- Can be used where radio not feasible. Modem operates primarily on GSM but automatically swaps to BGAN data service if the GSM service fails - requires combined GSM Data and Satellite

TIPPING BUCKET TYPE:

EM-TB-200-2
Tipping Bucket Rain Gauge 0.2mm bucket For Meteorological purposes

EM-TB-200-5 Tipping Bucket Rain Gauge
0.5mm bucket For General Purpose

EM-TB-200-10
Tipping Bucket Rain Gauge 1.0mm bucket For Flood Warning

EM-TB-200-MB
Mounting Bracket with levelling bolts Fits 2" BSP threaded Pipe

EM-TB-DL100
Mini Data Logger, battery and cable Fits inside EM-TB-200

SPECIFICATIONS:

- CR310 Data Logger with Program and Ethernet Port.
- HS TB4 0.2mm Rain Gauge and brackets
- Enclosure – SS with rain hood
- Lightning rod and grounding
- Solar power 20W panel and bracket, solar regulator
- RV50 GSM Ethernet Modem
- Antenna and bracket
- Co-axial Cable and connectors
- Surge arrester
- Calibration certificates for rain gauge
- Manuals and documents
- Data radio frequency to be specified
- Combined GSM Data and Satellite for GS3

Provide full details of your rainfall monitoring requirements and we will tailor engineer the most appropriate system for you.

Contact Us: +61 402 432 472
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