

Stygo 5 Geotechnical Monitoring Vibrating Wire Telemetry Hub

Stygo 5 is a versatile 2, 4 or 8 channel multicommunication enabled IoT device designed specifically for remote Geotechnical and Structural monitoring applications

The device is fitted with large rechargeable internal batteries and a specially designed clip on 3W solar panel for long term reliable monitoring

Overview

The versatile device offers the ability to use across a wide variety of applications such as Tailings Storage Facilities, Slope Stability Monitoring, Dam Safety Monitoring, Infrastructure and Construction Monitoring.



VWT comes as either single, 4-channel or 8-channel option for versatility around nested bores or clustered vibrating wire instruments.



Internal rechargeable battery pack or long-life non rechargeable with clip on solar power options. Ultra-Low power draw with internal battery backup.



Easily change settings, log time, transmission rate, alarms with OTA firmware updates onsite over the cellular or Iridium Satellite Networks.



Simply activate Bluetooth by pressing the button and connect via our free mobile Android and Apple mobile app for all your device configuration requirements



Internal storage of up to 260,000 events



Compact form factor Approx 112 x 177 X 63 mm





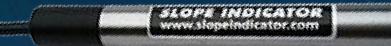
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Stygo 5 Integrated VWP Examples



Heavy-Duty VW Piezometers



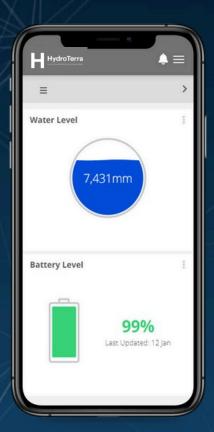
Corrosion-Resistant VW Piezometers



Push-In Piezometers



Multi-Level VW Piezometers



HydroTerra Platform FEATURES



Monitor environmental sensors and device locations and parameters



Configure sample rates, device outputs and variable alerts



Control device outputs such as pumps, valves and gates



Receive SMS or email alerts based on variable thresholds



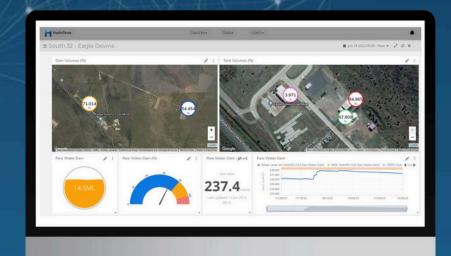
Download device data as csv files and images

OVERVIEW

Sensors are remotely monitored with our custom cloud based platform. Interrogate volume and level trends, change sampling intervals and set SMS and email alerts. Our platform is flexible and modular meaning we can set it up the way you like from our library of maps, charts, gauges and controls.

OTHER SERVICES

- Integrate other sensors to our platform
- White label the platform with your company branding
- Send your sensor data to third party platforms





Specifications

Physical property

Dimensions (W x H x D) 4ch VWT -Approx 112 x 177 X 63

mm

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mm

Body weight without battery 18650 approx 49g each

D cell approx. 111g each

Waterproof level IP67 rating

Operating environment

Temperature (1, 2) -20 ... 65 °C Storage (Without battery) -40 ... 65 °C

Humidity 5 ... 60% RH

Power source

Internal power (3) 2x Rechargable 18650 battery/Suggested model: ICR18650-26JM

2x Non-rechargable (D cell) battery/Suggested model: ER34615M

External power DC 12 ... 24 V / 1 A

Battery or Solar power with M8 connector

Output Option

Channel 4-8 VWP's and 4-8 Temperature

Measurement of Vibraling wire

Measurement Excitation

Automatically set 5V to 12 V

Sweeping frequency range 450...Hz

Accuracy +/-0.1% Full Scale

Measurement of Temperature Accuracy +/-0.1°C

Connectivity

USB 1x Micro USB

Wireless Bluetooth 5

System

Clock RTC Accuracy 70 ppm (20 ppm at 25 °C)

Network time Sync support

Display LEDs indicating status

Configuration Remotely change setting with two-way communications established via an application gateway

Logging

Number of channels 20

Reading interval sec/min/hr Max. 24:00:00

Memory 4MB / 256,000 Events (Non-volatile-Log)

Software EWS Logger V00.01.137 or higher Compatible with Window 10

File format .csv

Specifications

Built-in sensor / function

Internal battery voltage Yes

External voltage supply Yes

Temperature Yes

Radio signal Yes

GPS tracking Only cellular modem

Barometer No

Network communication

 Iridium
 Protocols
 Short Burst Data

 Coverage
 Worldwide

 4G Cellular LTE-M/NB-IOT
 Protocols
 MQTT

 Network support
 Telstra (Australia)

 Most major networks globally

 Coverage
 4 million Sqr km

Antenna type

Built-in antenna Yes

External antenna Optional