

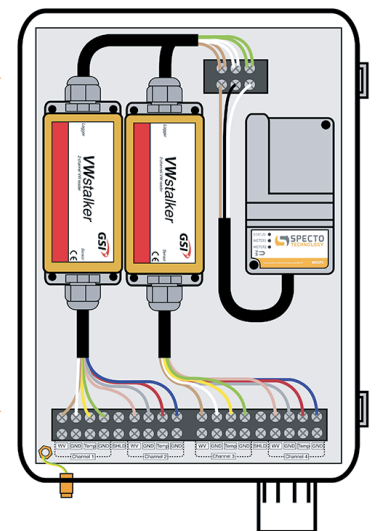
The WASP-VW is a variant of the WASP mA datalogger. It is compact, low power & easy to deploy. It reads vibrating wire (VW) & temperature sensors & transmits results wirelessly over the Internet to the WASP web portal for storage, processing and display. The same web portal is used to configure the logger. The WASP-VW comprises digital WASP (WASP-D) and VWstalker. Each VWstalker can read 2 VW and 2 temperature sensors. Each WASP-D can power and control up to 2 VWstalkers. The WASP-D communicates with the VWstalker using the SDI-12 protocol. Before installation, the VWstalker is programmed and pre-wired to the WASP-D. Once on site, VW sensors are connected to the VWstalker. The user then logs on to the web portal to set up logging and reporting schedule. The WASP-VW is ideal for new and retro-fit instrumentation projects where unattended collection of readings from VW sensors is required.

## FEATURES

- Reads up to 4 x VW sensors with thermistors (2 x sensors per VWstalker)
- Automatic and wireless data upload directly to the dedicated WASP web portal
- Works with dynamic IP address
- Stores 1,000's of data-points locally, avoids data loss if a break in communication occurs
- Low power consumption, internal battery has a life of up to 3-years
- Multiple permission levels on the web portal allow for easy user management
- Each VW channel configurable to match frequency range of the sensor using a VWstalker Programmer

## BENEFITS

- Works with most VW sensors
- Extremely compact and rugged in fully weather-proof enclosures
- Built-in antenna, wireless transceiver and battery as well as a SIM card with active mobile 3G data plan
- Minimum effort for site set up required
- Ideal for long-term, unattended projects that require wireless data acquisition
- Quick and easy to install. Perfect for new and retro-fit instrumentation projects
- Powered by Outpost Central, the WASP is tested and proven with over 5,000 units in use worldwide



## TECHNICAL SPECIFICATIONS

### Sensor Interface

Sensor Type	Vibrating wire and thermistor (for temperature)
Channels	2 x VW and 2 x temperature or 4 x VW and 4 x temperature
Accuracy (VW)	±0.1% of full scale
Accuracy (temperature)	±0.1°C
Excitation voltage for VW sensor	5V (or 12V with external battery)
Sweeping frequency range	450-6000 Hz (programmable)
Temperature sensor	Thermistor (3KΩ resistance)

### Datalogger

Flash Memory	300kB
Storage	2,700 data points (1 channel sampling @ 15-mins for 4 weeks)
Sampling Rate	Every minute to once/day per channel
Upload Rate	Up to twice a day

### Communications

3G / UMTS Frequencies	GSM 850/2100 MHz
External Antenna (optional)	2" stubby whip antenna, 2dBi gain, SMA Connector

### Physical

Size	110mm x 55mm x 40mm
Weight	255g (9 oz)
Working Temperature Range	-5 Deg C to 60 Deg C
Connections	Flying leads (connector available as options)

### Power Supply

Built-in Battery	3.6V Lithium
Switched Power Output (SPO) Max	Up to 15V @ peak capacity of 100mA
Battery Life	3 years *

### WASP-D

Size	110mm x 55mm x 40mm
Weight	255g (9 oz)
Working Temperature Range	-5 Deg C to 60 Deg C
Connections	Flying leads (connector available as options)

### VWstalker

Size	130mm x 55mm x 46mm
Weight	318g (11.2 oz)
Working Temperature Range	-5 Deg C to 60 Deg C
Connections	Flying leads (connector available as options)