

## Temperature gages



### Description

#### [Model 1010]

**VW temperature gage** consists of a stainless steel transducer body to which a VW sensor element is attached. The gage is designed to measure temperature, which provides principle that the coefficients of thermal expansion of the body and wire are different.

The frequency signal from the VW temperature gage is very stable and accurate. It also is unaffected by changes in cable resistance caused by water penetration and is no problem that is caused by general temperature device such as thermocouples and thermometers using it.

These gages are rugged and allow it to survive in the most severe environments.



#### [Model 5550]

This model is composed with thermistor that allows a wide range temperature with short response readings.



### The readout

It is connected to the system such as the VW readout units, data loggers to be data logging and data acquisition system to monitor readings. It is compatible with other company's readout unit.

- ACE-800 (VW readout)
- ACE-1000 (VW data recorder)
- ACE-1100 series (VW mini logger)
- ADL-16V (VW data logger)
- ADL-200A (Smart logger)
- VL Module (Smart LoRa system)

### Ordering information

- Cable length
- Keeping VW readout unit

### Ancillary equipments

- Universal terminal box (model 7012/7024)
- Heavy duty signal cable

### Applications

- Measurement of temperature in concrete structure
- Measurement of temperature in concrete during curing
- Measurement of borehole temperature in dam site

### Features

- Not affected by cable length and resistance
- Highly sensitive
- High stability and reliability
- Built-in another temperature device
- Automated measurement is possible

### Specification

Model	1010	5550T
Sensor element	Vibrating wire sensor	Thermistor
Range	-40~150°C	-40~120°C
Resolution	0.03°C	0.1°C
Accuracy	±0.5°C	±1.0°C
Built-in temperature device	Thermistor (3k $\Omega$ )	-
Temperature device range	-40~105°C	-
Waterproof	500m H <sub>2</sub> O	
Material	Stainless steel, high grade epoxy potting	Nylon
Weight	0.15kg	
Signal cable	Ø6.4mm, 0.37mm <sup>2</sup> ×4C shielded PVC sheath cable	