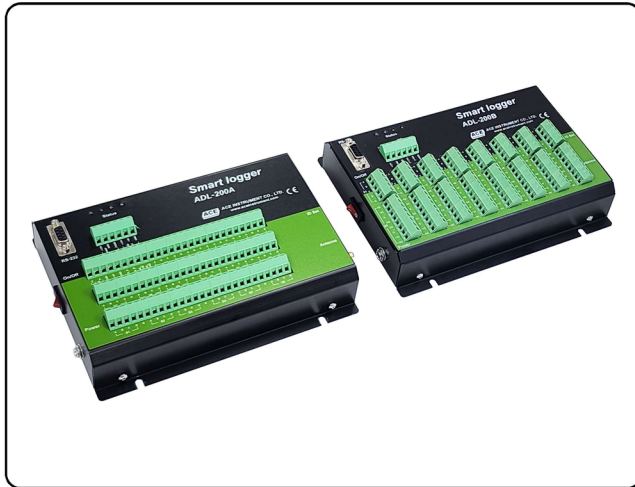


Smart logger



Description

A data logger is a device that stores and controls data transmitted by time-varying types of sensors (load, stress, strain, pressure, temperature, displacement, tilt sensor, etc.) installed in the field.

Smart logger ADL-200A is our company's top model static data logger, it is a full range logger that connects 16 channel vibrating wire sensors and 16 channel analog sensors (temperature sensor, mV sensor, FSG sensor, sequential serial communication sensor, etc.).

Smart logger ADL-200B is a data logger with 8 channels of the same functions as ADL-200A and 8 digital channels that can measure our company's model 4491 digital multi-point inclinometer.

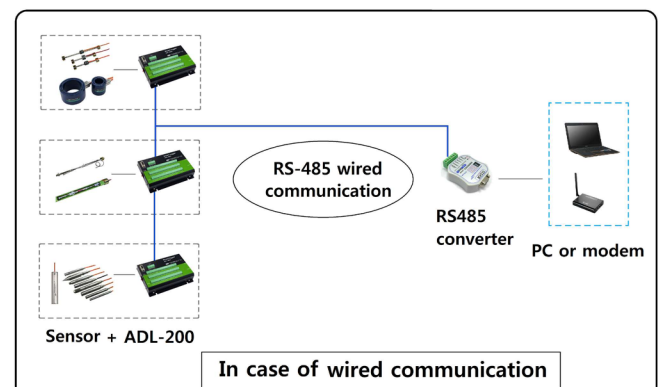
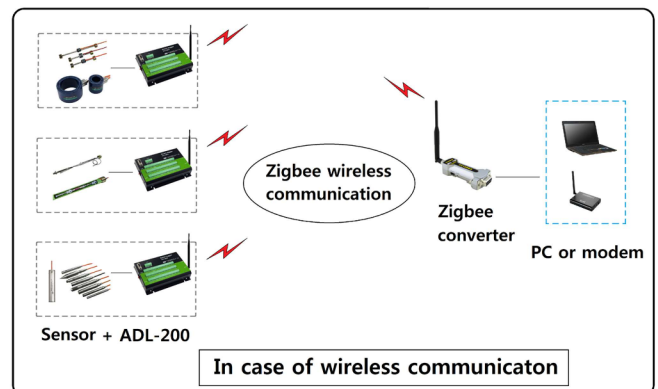
Built-in 2.4GHz Zigbee wireless module port for logger-logger connection and RS-485 communication port for logger-logger connection in ADL-200A can be configured wired or wireless according to the site. When connecting wirelessly, data communication distance is about 200 ~ 600m. ADL-200A can be equipped with wireless modems for 2G, 3G, 4G and 5G, and can be controlled remotely, outputting with high precision, accuracy and high resolution regardless of the surrounding environment or temperature, and highly stable and reliable data acquisition. Data loggers operate in proportion to the number of different types of sensors installed in the field. Therefore, even in small or large sensor installations, up to seven sets of smart logger ADL-200A can be controlled by Zigbee wireless or wired communication. Up to 112 vibrating wire sensors and 112 analog sensors can be connected and controlled in a single system simultaneously.

ADL-200B uses RS-485 communication for digital sensor measurement. When connecting multiple smart loggers, only Zigbee communication is possible and the RS-485 communication port can't be used.

ADL-200A is developed with world-class hardware and operating software to ensure quality.

Functions

- High accuracy of measurement data and storage of continuous measurement data
- Digital and analog sensor connection
- Possibility of Remote control
- Easy to operate even for beginners
- Possible to use both single and multiple use so, very efficient
- Compatible with W-Pro Web monitoring program



[7 sets of smart logger can be connected by wired or wireless network to operate automation system]

Smart logger

Specification

Model		ADL-200A		ADL-200B	
Applied sensor		VW, mV, FSG, Temperature and Serial communication sensor		VW, mV, FSG, Temperature, Serial communication sensor and Digital multi-point inclinometer	
Power source		DC 12V			
Operating temperature		-20 ~ 70℃			
Voltage consumption		Less than 65mA / Standby, less than 100mA / Measurement			
Data memory		60,000 Points			
Analog sensor	Range	mV sensor	-5000 ~ 5000 mV		
		FSG sensor	-9999 ~ 9999 μV/V		
		Temperature sensor	-50 ~ 150℃		
	Accuracy	0.1% FSR			
	Channel	16 ch		8 ch	
VW sensor	Frequency	0 ~ 15 kHz			
	Accuracy	0.05% FSR			
	Channel	16 ch		8 ch	
Digital multi-point inclinometer	Range			-30° ~ +30°	
	Accuracy	Not be used		0.05% FSR	
	Channel			8 ch	
Logger applied method		Single / Multi			
Logger max. connection quantity		Max. 7sets / 112ch			
Logger to logger wireless communication	Communication method	Zigbee method			
	Frequency	2.4 GHz			
	Communication distance	200 ~ 600m (Depend on conditions)			
	Antenna	Helical antenna			
	Converter	Zigbee to RS-232 converter			
Logger to logger wired communication	Communication method	RS-485 method		Not be used	
	Communication distance	Within 1,000m			
	Converter	RS-485 to RS-232 converter			
Communication speed		38,400 bps			
External modem		3G ~ 5G modem (Smart logger – computer)			
Dimensions		202×152×39mm			
Material		Aluminum anodizing case			
Weight		300g			
Continuous use time		Car battery : More than 20 consecutive days in RS-485 communication, more than 7 consecutive days in Zigbee method 200W solar panel at full charge : More than 5 consecutive days in Zigbee method			

[Zigbee wireless module is not used when smart logger is used alone, but it is necessary when interlocking multiple sets of smart logger]

Applied sensor

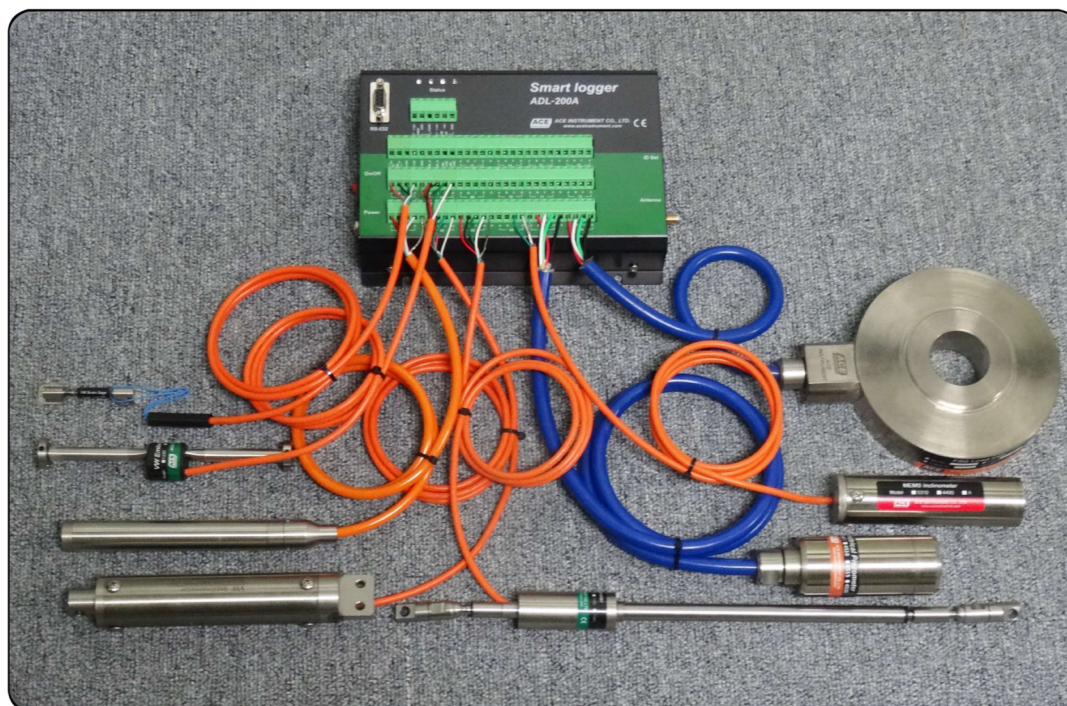
- Digital sensor : Vibrating wire sensor
- Analog sensors
 - FSG(Foil strain gage) sensor
 - Potentiometer
 - LVDT
 - Thermistor, RTD temperature sensor
 - 4~20mA sensor
 - Sequential serial communication sensor
- Digital multi-point inclinometer (ADL-200B)

Applications

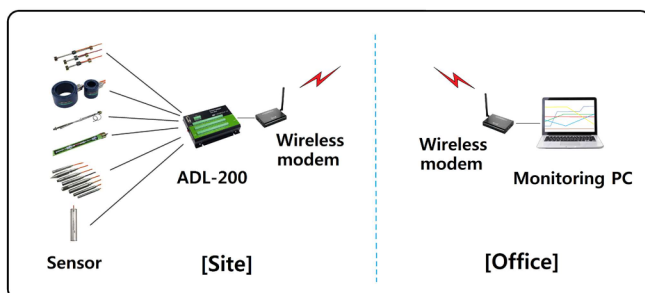
Model ADL-200A, B Smart Logger is useful for sensor automation measurement in various types of civil and construction sites.

- Sites requiring remote control and unmanned control
- Site where need accurate, real-time data
- Automated measurement in the field where people are hard to enter
- Automated measurement enables the current status check by multiple users when using external modem

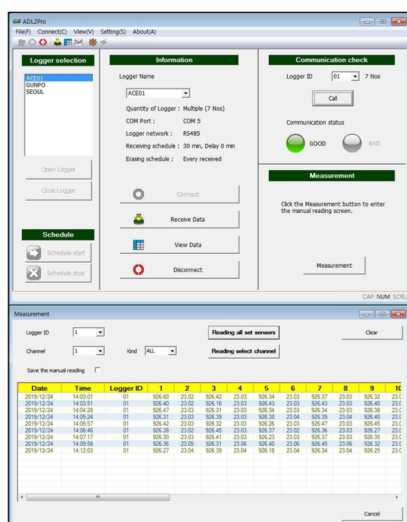
Smart logger



System configuration



Operating software



Web program



Web monitoring program as W-Pro is available graph frontier, report creation and modification, alarm, real-time measurement data retrieval. It is based on the data stored in the server computer through out all kind of static sensors.