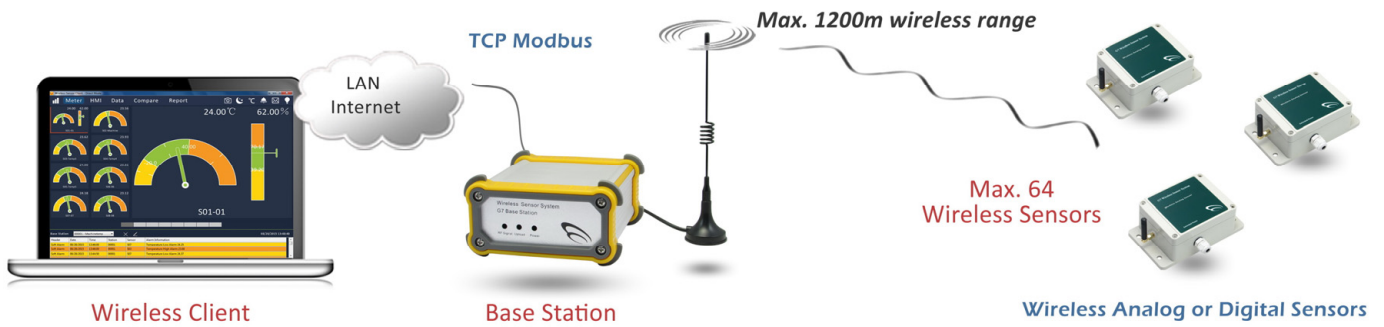




# Sensors or Transducers for G7-AD



## connecting to G7-AD wireless sensors ...

Sensors with 4-20mA or 0-5VDC can be connected to G7-AD.

Measurement will be transmitted to base station wirelessly for central monitoring.

G7-AD & CO2 Sensor



G7-AD & PM2.5 Sensor



### Special points of interest:

- All sensors, transducers and accessories on this brochure are certified to work with G7-AD wireless sensors.
- G7-AD is designed to work with sensors in this catalogues
- Please specify your application or ask our engineers' advice for recommended models

Sensors will be powered by G7-AD internal voltage output.

In sleep mode, power will be turned off automatically to save energy.

### Sensors monitoring:

- \* Environmental Temperature, Humidity
- \* Freezer Temperature
- \* Wind Speed, Wind Direction
- \* Water or Oil Tank Level
- \* CO2 Content, Soil Humidity
- \* Light Illuminance, Solar Radiation
- \* Water or Gas Flow, Load Cell

## Agricultural Wireless Monitoring System

Sensors are directly connected to AD channel of G7-AD.

Sensors are powered by the G7-AD internal voltage output.

In sleep mode, the power will be turned off automatically to save energy.

**G7-BS**  
Base Station



G7-BS provides wireless central receiver of temperature, humidity, soil humidity, soil pH, CO<sub>2</sub>, wind speed/direction for agriculture.

### Weather Station Mounting

Height:	Standard	1m
	Optional	2.5m
Material:	Stainless Steel	
Mounting:	1. Tripod Mount	
	2. Base Mount	
Sensors & Accessories excluded		

### Sensor Sunshield



4-8 Layers Shielding  
Mounting for Sensors of:  
Temperature, Humidity, Pressure



All sensors can be powered by G7-AD internal voltage output - 12 or 24VDC, max. 50mA.

### Industrial Grade

#### Pt100 Temperature Transducer

<b>T_A2</b>	<b>Aluminum Housing</b>
Sensor:	pt100
Measuring Range:	-200 ~ 400 °C
	To be specified by user
Accuracy:	+/-0.2 / 0.5 °C
Operating Voltage:	12 or 24VDC
Extended Cable:	> 100 meter
Output Signal:	4~20mA



*Sensors for AD analog channel  
... providing wider range of temperature*

<b>T_A1</b>	<b>PVC Housing</b>
Sensor:	pt100
Measuring Range:	-100 ~ 100 °C
	To be specified by user
Accuracy:	+/-0.2 / 0.5 °C
Operating Voltage:	12 or 24VDC
Extended Cable:	> 100 meter
Output Signal:	4~20mA

**WD100**  
Wind Direction Sensor



**WS100**  
Wind Speed Sensor

### Specification

Range	0~45 (default) or 75m/s
Accuracy	+/- (0.3 + 0.03V) m/s
Resolution	0.1 m/s
Start Up Wind Speed	< 0.5 m/s
Output	Square Wave Pulse
Transducer Output	4 ~ 20mA
Operation Voltage	DC 24V or 12V
Max. Rating	10mA
Operation Temperature	-40 ~ 50 °C
Weight	< 0.5kg

### Wind Speed & Direction Sensor

	Wind Speed Sensor	Wind Direction Sensor
Range	0~45 (default) or 75m/s	0~360°
Accuracy	+/- (0.3 + 0.03V) m/s	0.1% Linear
Resolution	0.1 m/s	1°
Start Up Wind Speed	< 0.5 m/s	< 0.8 m/s
Output	Square Wave Pulse	0~5k W (+- 15%)
Transducer Output	4 ~ 20mA	4 ~ 20mA
Operation Voltage	DC 24V or 12V	DC 24V or 12V
Max. Rating	10mA	10mA
Operation Temperature	-40 ~ 50 °C	-40 ~ 50 °C
Weight	< 0.5kg	< 0.5kg

Certified sensors for better compatibility and data accuracy can be connected to G7-AD directly.

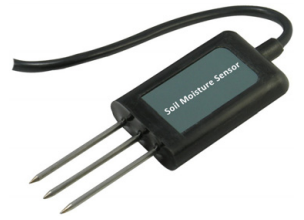
### Light Sensor

Measuring Range: 0 ~ 200K lux  
 Spectral Range: 400 ~ 700nm  
 Accuracy: +/- 5%  
 Operating Voltage: 12-24VDC  
 Output: 4~20mA  
 Enclosure: PVC IP65 Water Proof Housing  
 Application: Farming, Agriculture, Greenhouse



### Soil Humidity Sensor

Measuring Unit: % (m3/m3)  
 Range: 0 ~ 100%  
 Signal Output: 4~20mA  
 Measuring Area: 90%  
 Diameter/ Height: 3cm / 6cm  
 Material: anti-corrosive ABS PVC  
 Probe: Stainless Steel , Water Proof Housing



### Solar Radiation Sensor

Measuring Range: 0 ~ 1500W/m2  
 Spectral Range: 300 ~ 3000nm  
 Accuracy: +/- 3%  
 Operating Voltage: 12-24VDC  
 Enclosure: Aluminum IP65, Water Proof  
 Application: Solar Power Industry, Agriculture  
 Weather Station



### Soil pH Sensor

Measuring Range: 0 ~ 14pH  
 Accuracy: +/- 0.1pH  
 Resolution: 0.01pH  
 Power: DC12V, 0.2W  
 Output: 4-20mA  
 Operation: 0 ~ 80 °C  
 Material: anti-corrosive ABS PVC  
 Probe: 98x66x49mm , Water Proof Housing



### PM2.5 Sensor

Measuring Range: 0~1000ug/m3  
 Resolution: 1ug/m3  
 Accuracy: +/- 3% F.S.  
 Operating Voltage: 12VDC  
 Output: 4~20mA  
 Enclosure: PVC



### CO2 / CO Sensor

CO2 Range: 0 ~ 2000ppm  
 CO Range: 0 ~ 400ppm  
 Resolution: +/- 10ppm  
 Accuracy: +/- 5%  
 Operating Voltage: 12-24VDC  
 Output: 4~20mA



### Level Transducer [Pressure Type]

- \* Water/Oil Level Transducer
- \* IP65 Enclosure
- \* 0-1, 2, 5, 20, 200 m range
- \* 12~24VDC power
- \* Output: 4~20mA
- \* Operating Temperature: -40 ~ 80 °C
- \* Optional anti-corrosive enclosure
- \* Accuracy: A (1%), B (0.5%), C (0.25%)

- \* Drop in type
- \* Anti-corrosive



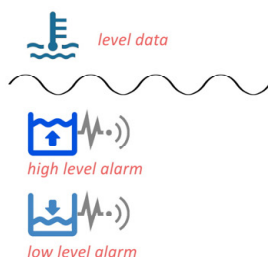
Drop in type

Screw in type

### G7-AD Wireless Analog Sensor Ultrasonic Level Sensor



Max. 64 tanks



### G7 Base Station



### G7 Alarm Monitoring App



## Load Cell Sensor

Measuring Range:	2kg ~ 100 ton
Accuracy:	+/- 3%
Operating Voltage:	12-24VDC
Enclosure:	Aluminum IP65, Water Proof

## Application

- \* Wireless Truck Load Monitoring
- \* Wireless Poultry Feeding Container Alarm



## Detectors for G7-D2

### Level Switch

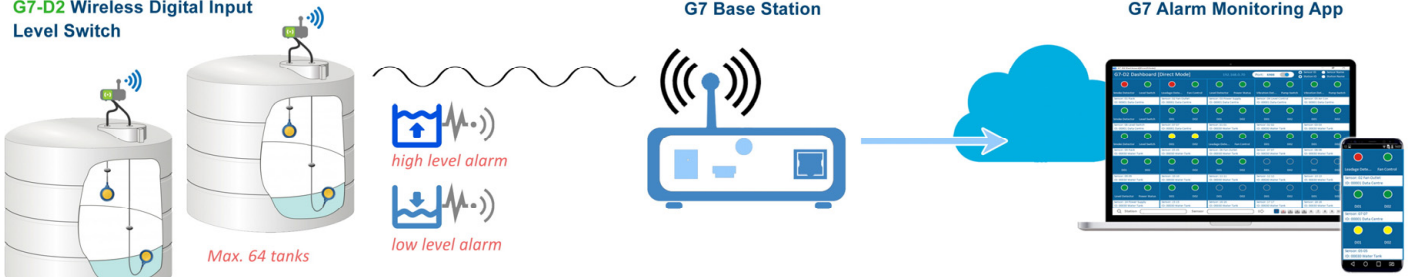
Detection:	High/Low - NO
Alarm Output:	Dry Contact
Liquid:	water, oil, diesel
Enclosure	anti-corrosive steel

### Application

- \* Remote alarm triggered when high or low level



G7-D2 Wireless Digital Input Level Switch



### Water Leakage Detector

Detection:	Water Leakage
Alarm Output:	Dry Contact
Liquid:	water
Enclosure	PVC

### Application

- \* Hotels, Apartments, Commercial Building
- \* Remote alarm triggered in water leakage
- \* Wireless Central Alarm Management of multiple sites



G7-D2-W Wireless Water Leakage Detector

