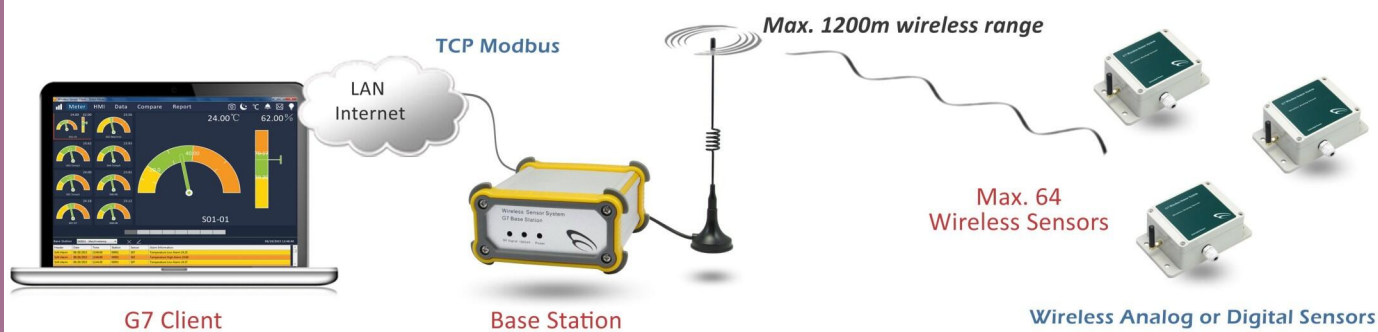




connecting to G7-AD, G7-MS or G7-M wireless sensors ...

Sensors with 4-20mA/0-5VDC and RS485 Modbus can be connected to G7-AD, G7-MS, G7-MB respectively. Measurement will be transmitted to base station wirelessly for central monitoring.

Sensor will be powered by internal 12/24V voltage output.

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

Wireless Sensor Solar Power Option:

- Integrated 1W or External 6W
- Waterproof Built-in voltage regulator
- Internal rechargeable battery

Solar Panel



G7-MS-TH [Soil Temperature & Moisture]
G7-MS-EH [Soil EC & Moisture]
G7-MS-EP [Soil EC & pH]



Base Station Solar Power Option:

- IP67 Case (280x199x90mm)
- Waterproof RF Antenna
- Built-in voltage regulator
- Internal rechargeable battery

Sensors monitoring:

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



IoT Wireless Sensors for Farming up to 1500m

Soil Temperature Humidity Sensor G7-S2

Humidity: 0 ~ 100% (+/- 2%)
 Temperature: -55 ~ 125 °C (+/-0.3°C)
 Housing: Water Submersible



G7-AD-SH [Soil Moisture]
G7-AD-SE [Soil EC]
G7-AD-SP [Soil pH]

Soil Moisture Sensor

Range: 0 ~ 100%
 Accuracy: +/- 3%
 Measuring Area: 90%
 Response Time: <1s
 Diameter/ Height: 3cm / 6cm
 Material: anti-corrosive ABS PVC
 Probe: FDR measuring technology
 Stainless Steel IP68 Housing



Soil pH Sensor

Range: 3~9 pH
 Accuracy: +/- 0.3pH

Soil EC Sensor

0 ~ 10000uS/cm
 +/- 10uS/cm

Light Sensor

Measuring Range: 0 ~ 200K lux
 0 ~ 65535 lux
 Spectral Range: 400 ~ 700nm
 Accuracy: +/- 5%
 Operating Voltage: 12-24VDC
 Enclosure: * PVC IP65 Water Proof
 * Industrial Housing
 Application: Farming, Agriculture,
 Greenhouse, Environmental



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



CO Sensor

CO2 Sensor

CO2 Range: 0 ~ 2000 or 5000ppm
 CO Range: 0 ~ 1000 or 2000ppm
 Resolution: +/- 10ppm
 Accuracy: +/- 5%
 Power: 12-24VDC
 Output: 0-5V DC



PM2.5 Sensor

Range: 0~1000ug/m3
 Resolution: 1ug/m3
 Accuracy: < 2% F.S.
 Power: 12VDC
 Output: 0-5V DC
 Enclosure: PVC (70x110x38mm)

Wind Speed & Direction Sensor



Wind Speed & Direction Sensor

Specification

Range
 Accuracy
 Resolution
 Start Up Wind Speed
 Output
 Transducer Output
 Operation Voltage
 Max. Rating
 Operation Temperature
 Weight

Wind Speed Sensor

0~45 (default), 75m/s
 +/- (0.3 + 0.03V) m/s
 0.1 m/s
 < 0.5 m/s
 Square Wave Pulse
 0-5V DC
 DC 24V or 12V
 10mA
 -40 ~ 50 °C
 < 0.5kg

Wind Direction Sensor

0~360°
 0.1% Linear
 1°
 < 0.8 m/s
 0~5k W (+- 15%)
 0-5V DC
 DC 24V or 12V
 10mA
 -40 ~ 50 °C
 < 0.5kg

Wireless pt100 Temperature Sensor

pt100 Temperature Sensor - food industry

G7-AD-TF

Sensor: pt100
Probe: 80mm steel housing
Food Safety
Typical: -100 ~ 500 °C
Accuracy: $\pm 0.2 / 0.5$ °C



Connecting to pt100 sensors

provides wider range of temperature

pt100 Temperature Sensor Industrial Grade

G7-AD-TA

Sensor: pt100
Probe: Aluminum Housing
80mm steel probe
Range: user specified
Typical: -250 ~ 500 °C
Accuracy: $\pm 0.2 / 0.5$ °C



pt100 Temperature Sensor - cement/sand

G7-AD-TC

Sensor: pt100
Probe: 40mm steel housing
anti-corrosive
Typical: -150 ~ 500 °C
Accuracy: $\pm 0.2 / 0.5$ °C



pt100 Temperature Sensor - liquid/steam

G7-AD-TL

Sensor: pt100
Probe: 100mm steel housing
immersible
Typical: -250 ~ 500 °C
Accuracy: $\pm 0.2 / 0.5$ °C



Wireless Noise Sensor

	[Version A]	[Version B]
Measuring Range:	30 ~ 120dB	30 ~ 120dB
Accuracy:	± 0.5 dB (94dB@1KHz)	± 0.5 dB (94dB@1KHz)
Frequency Range:	20Hz ~ 12.5KHz	20Hz ~ 12.5KHz
Logging Frequency:	100 per second	100 per second
Enclosure:	PVC casing	Steel housing
Application:	Environmental Monitoring	Industrial Control



Wireless Level Transducer [Pressure Type]



Screw in type



Drop in type



Anti-corrosive



- * Water/Oil Level Transducer
- * IP67 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%)



Wireless Analog Sensors

Wireless Tank Level Measurement System

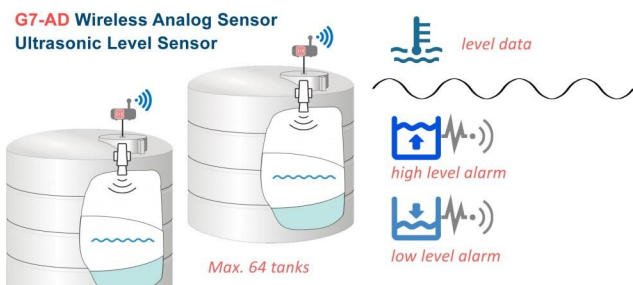


Level Sensor: Ultrasonic Type or Pressure Type
Liquid: water, oil, diesel
Range: 0 ~ 3,5,10,20 ~ 100m
Accuracy: +/- 0.25% FS
Resolution: 1mm
Signal Output: 4-20mA
Enclosure: anti-corrosive steel

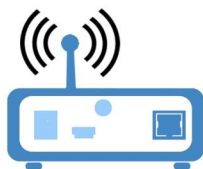
Application

- * Wireless Tank Level Monitoring
- * Keep tracking of level or volume data
- * Tank Level High/Low Alert when oil or water refills

G7-AD Wireless Analog Sensor Ultrasonic Level Sensor



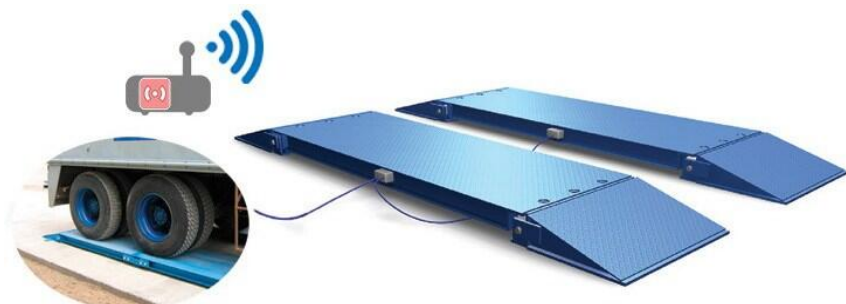
G7 Base Station



G7 Alarm Monitoring App



Wireless Vehicle Weighting System



Application

- * Wireless Truck Over Load Alarm
- * Wireless Poultry Feeding Container Alarm

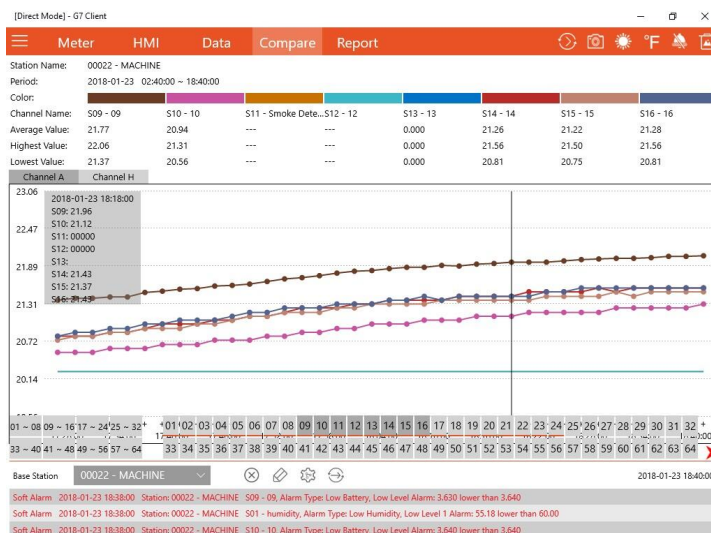
Load Cell Sensor

Range: 2kg ~ 100 ton
Accuracy: +/- 3%
Enclosure: Water Proof Aluminum IP65

G7 Client Lite App

Wireless Software for Win10, iPad, iPhone, Android Phone:

- Base Station and Sensor Name are user programmable
- Support max. 2 base stations & 128 wireless sensors
- Each sensor can connect one analog transducer
- Support 2 levels of high/low alarm
- Alarm status in different alert colors
- Sensor battery low level alert
- Email Alarm sent to max. 3 users mailbox
- Free bundled with G7 base station





Wireless Water Quality Sensors

Low Power Design

Micro-controller supports sleep mode for years long operation in battery.

Internal Power Output

It provides on board voltage output 12VDC for external meter in different applications e.g. flow meter.

Warm Up Time

Programmable warm up time allows stable data from different meters.

Wireless Sensor - Modbus RS485

RS485 Port:	Modbus Protocol
Battery:	3.6V, 14000mAh
Operation Period:	> 5 years (upload: 30 min)
Internal Power Output:	12VDC for Modbus Sensor

Application

- * Wireless Tank Water Quality Monitoring
- * Keep tracking of fish pond water quality
- * Quality Control of drinking, reservoir or river water

Wireless Liquid pH Sensor



Wireless pH Sensor

Material: Liquid
Range: 0 ~ 14
Accuracy: +/- 0.02pH
Resolution: 0.01pH
Power: Internal
Probe: IP68
Response: <10s
Operation Temperature: 0 ~ 60 °C

Wireless Water Turbidity Sensor



Wireless Water Turbidity Sensor

Material: Water
Range: 0 ~ 10, 400, 1000 NTU
Accuracy: +/- 0.2% FS
Resolution: 0.1 or 0.01NTU
Power: Internal
Probe: IP68
Response: <10s
Operation Temperature: 0 ~ 60 °C

Wireless Dissolved O2 Sensor



Wireless Dissolved CO2 Sensor

Material: Liquid
Range: 4.4 ~ 440 ppm
Accuracy: +/- 5% F.S.
Resolution: 0.01mg/L
Power: Internal
Probe: IP68
Response: <10s
Operation Temperature: 0 ~ 60 °C

Wireless Dissolved Oxygen Sensor

Material: Water
Range: 0 ~ 20mg/L
Accuracy: +/- 0.5mg/L
Resolution: 0.01mg/L
Power: Internal
Probe: IP68
Response: <10s
Operation Temperature: 0 ~ 60 °C

Wireless Dissolved Fluorine Sensor

0.02ppm ~ saturated

Wireless Dissolved Calcium Sensor

0.2 ~ 40000ppm

Wireless Dissolved Sodium Sensor

0.02 ~ 100000ppm

Wireless Dissolved Magnesium Sensor

0.1 ~ 30000ppm

Wireless Dissolved Potassium Sensor

0.7 ~ 98000ppm

Wireless Dissolved Nitrous Acid Sensor

0.2 ~ 2200ppm

Accuracy: +/- 2% F.S.

Power: Internal

Probe: IP68

Response: <10s

Wireless Dissolved Chlorine Sensor

Material: Liquid
Range: 0.1 ~ 18000 ppm
Accuracy: +/- 2% F.S.
Resolution: 0.1ppm
Power: Internal
Probe: IP68
Response: <10s
Operation Temperature: 0 ~ 60 °C





Wireless Alarm Detectors

Wireless Water Leakage Detector



Detection Pin



Detection Cable

Detection: Water Leakage

Liquid: water

Alarm Output: Dry Contact

Enclosure: PVC

Application

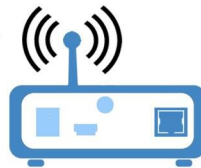
- * Hotels, Apartments, Commercial Building
- * Wireless alarm triggered in water leakage
- * Central Alarm Management of multiple sites

G7-D2-W Wireless Water Leakage Detector

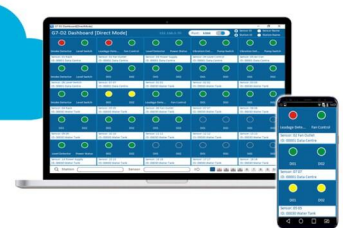


water leak alarm

G7 Base Station



G7 Alarm Monitoring App



Max. 64 wireless water leakage detector per base station

Wireless Tank Level Detector



Level Switch Detection: High/Low - NO

Liquid: water, oil, diesel

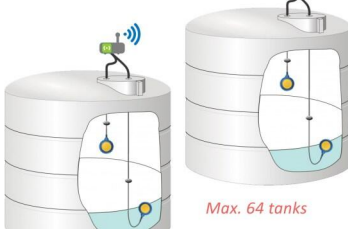
Alarm Output: Dry Contact

Enclosure: anti-corrosive steel

Application

- * Wireless Alarm Monitoring
- * Tank Level High/Low Alert when oil or water refills

G7-D2 Wireless Digital Input Level Switch



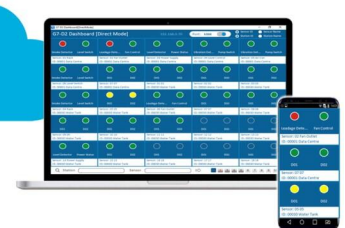
Max. 64 tanks

high level alarm
low level alarm

G7 Base Station



G7 Alarm Monitoring App



D2 Alarm Dashboard

Wireless Alarm Software for Windows:

- Base Station and Sensor Name are user programmable
- Support max. 320 wireless sensors
- Each sensor can connect 2 digital detector inputs
- Digital Alarm On, Off, Resume status in different alert colors
- Sensor battery low level alert
- Email Alarm sent to max. 5 users mailbox
- SMS Alarm sent to max. 5 users mobile phone
- Free bundled with G7-D2 sensor

