

Sub-1GHz band Wireless

Wireless I/O series

for USA or EU

Possible to input voltage signals or input and output digital signals from about 1km aparted terminals wirelessly

- Highly reliable mesh communication
- Supports Sub-1GHz band wireless with excellent transmission distance
- Driver library for Windows (available) and Linux (available soon)



GW1-ETH-WQ-US
Gateway terminal (master) for computer



AI-1004LY-WQ-US
Analog input terminal (slave) 10-bit, 4ch, ±10V



DIO-0404LY-WQ-US
Digital I/O Terminal (slave) isolated input 4ch, output 4ch



Application example of wireless I/O series

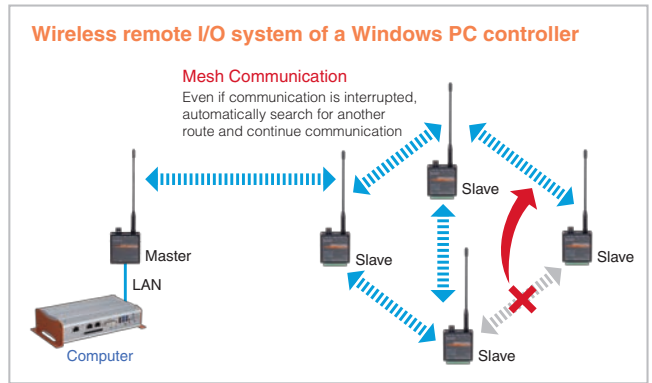
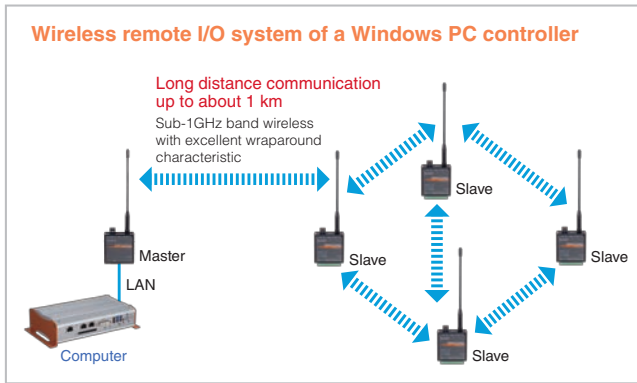
Implementation image at water treatment plant

Benefits of the system

- **Ideal for monitoring targets scattered in a wide area**
Because the superior inlong distance wireless communication feature, it is suitable for installation on monitored objects scattered in a wide area.
- **High reliable to prevent data loss**
If a communication failure occurs between a certain slave terminal and the master gateway, the system mesh communication function will make this slave terminal communicate with the master gateway via another slave terminal.
- **Easy to mount**
By using the optional bracket, the robust and compact terminal can be mounted on a DIN rail.




Network Topology



Applications and Solutions

- Airport luggage conveyor control system
- Distributed signal monitoring system in factory with wide site
- Temperature monitoring system for a wide warehouse where layouts of stored products are changed frequently
- Monitoring system which can use Sub-1GHz band wireless to ensure of the communication channels if there is too much WiFi (2.4 GHz) wireless signal sources
- Tank level monitoring system

Product Line Up

| Product name | Model | Region / Standard | Functions |
|---|------------------|-----------------------|---|
| Sub-1GHz band Wireless Ethernet Gateway | GW1-ETH-WQ-EU | EU / CE | <ul style="list-style-type: none"> • Wireless I/O master terminal • Ethernet - Sub-1GHz wireless communication conversion |
| | GW1-ETH-WQ-US | USA / FCC | |
| Sub-1GHz band Wireless Isolated Digital I/O Terminal | DIO-0404LY-WQ-EU | EU / CE | <ul style="list-style-type: none"> • Wireless I/O slave terminal • Photocoupler isolated inputs: 4 • Photocoupler isolated open-collector outputs: 4 |
| | DIO-0404LY-WQ-US | USA / FCC | |
| Sub-1GHz band Wireless 4-channel Analog Input Terminal | AI-1004LY-WQ-EU | EU / CE | <ul style="list-style-type: none"> • Wireless I/O slave terminal • 10-bit, 4-channel, ±10 V analog input |
| | AI-1004LY-WQ-US | USA / FCC | |
| Mounting Bracket | BRK-WQ-Y | - | <ul style="list-style-type: none"> • Bracket for DIN rail mounting  |
| AC Adapter | POA201-10-2 | CE, FCC, UL/c-UL, PSE | <ul style="list-style-type: none"> • Input: 90 to 264 VAC, output: + 12 VDC 1 A |

* The photographs used in this paper are GW1-ETH-WQ-US, AI-1004LY-WQ-US, or DIO-0404LY-WQ-US respectively.
 * There are also Sub-1GHz band wireless products for Japan market.

Main features of the wireless I/O series

- Highly reliable Mesh communication, AES-encrypted data communication
- Supports ambient temperatures from -20°C to +60°C
- Compact design (62.0(W) x 64.0(D) x 24.0(H)mm, No projection and antenna included)
- Can be installed on a DIN rail with the optional DIN rail mounting bracket
- Driver available for Windows (free download from CONTEC website) and Linux (available soon)
- A gateway (master) can connect with up to 128 I/O terminals (slave)

Contec Global Network

U.S.A.

CONTEC AMERICAS INC.
 3991 Sarno Rd. Melbourne, FL 32934 U.S.A.
 Tel. : +1-321-728-0172

THE NETHERLANDS

CONTEC CO., LTD. AMSTERDAM BRANCH
 WTC Amsterdam Tower C Level 12,
 Strawinskylaan 1249,
 1077XX Amsterdam, THE NETHERLANDS
 Tel. : +31-20-238-0960

TAIWAN

TAIWAN CONTEC CO., LTD.
 9FL, No. 738, Zhongzheng Road,
 Zhonghe District, Xinbei 23511 TAIWAN
 Tel. : +886-2-8227-8669

KOREA

CONTEC CO., LTD . Korea Liaison Office
 19, Cheongmyeong-ro 21beongil,
 Yeongtong-gu, Suwon-si, Gyeonggi-do,
 KOREA
 Tel. : +82-10-6557-2359

CHINA

CONTEC (SHANGHAI) CO., LTD.
 Room 1002, Qilai Building, No. 889,
 Yishan Road, Shanghai 200233 CHINA
 Tel. : +86-21-5401-2288

SINGAPORE

SINGAPORE CONTEC PTE. LTD.
 Blk 4010, Ang Mo Kio Ave. 10 #07-01
 Techplace 1, 569626 SINGAPORE
 Tel. : +65-6459-1667

<https://www.contec.com>

Headquarters: CONTEC CO., LTD. (Japan)
 3-9-31, Himesato, Nishiyodogawa-ku, Osaka 555-0025, Japan