

## Product Intro



Capable of monitoring up to 1000 meters with a sensing cable

Precise localization, error less than 2% of cable length

Break detection alerts, safe and reliable

LCD display indicates the location of leaks

## Product Intro

The GLD4100 Locating Leak Detection Controller performs real-time monitoring of environmental leaks. Upon detecting liquid, the controller emits an alarm, the LCD displays the leak location, and it transmits leak position data via an RS485 communication interface. It also activates a relay output switch signal. This location-type leak detector uses MODBUS-RTU protocol programming, facilitating integration with monitoring systems and can monitor a sensing cable up to 1000 meters long.

## Technical Specifications

Power Supply	12-24VDC
Relay Output	1 SPDT 125VAC/0.5A 30VDC/2A
Serial Interface	RS485 two-wire network, MODBUS-RTU Baud Rate: (default 9600), Address (default 1)
Sensing Length	Up to 1000 meters
Detection Accuracy	Error less than 2% of sensing cable length
Operating Environment	-30 to 70°C, 0-80% RH (non-condensing)
Enclosure Dimensions	70mm*85mm*58mm
Mounting	35mm DIN rail

## Product Certification



## Wiring Instructions

E-mail: gold@goldkoon.com

Phone: 0755-23776082

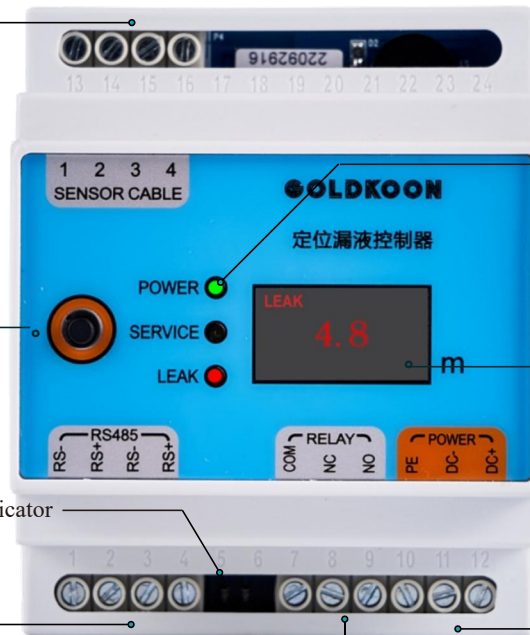
Shenzhen Goldkoon Automatic Control Equipment Co., Ltd.

www.goldkoon.com

### SENSOR CABLE

Connect the lead-out wires to the sensor cable (order of lead-out wires):

1-Black, 2-Yellow,  
3-Green, 4-Red



### Indicators

POWER Power Indicator  
SERVICE Break Indicator  
LEAK Leak Alarm Indicator

Mute reset button

### LCD Display

Shows normal status, leak, and break

RS485 Communication Status Indicator

### RS485 Interface

RS+ and RS- form a pair; connect any one pair.

**\*\*For detailed operations, refer to the communication protocol\*\***

### Relay Output (RELAY)

NO - Normally Open  
COM - Common  
NC - Normally Closed

### Power Input (POWER)

Supports 12-24VDC supply  
DC+ Power Positive  
DC- Power Negative

1. The leak detection controller can connect to a sensor cable up to 1000 meters long.
2. Leak detection location is calculated from the start of the sensor cable; lead-out wires are not included in the length calculation.
3. The default factory settings for the leak detection controller are Address 01, baud rate 9600, and normal sensitivity (parameters can be adjusted based on site requirements).

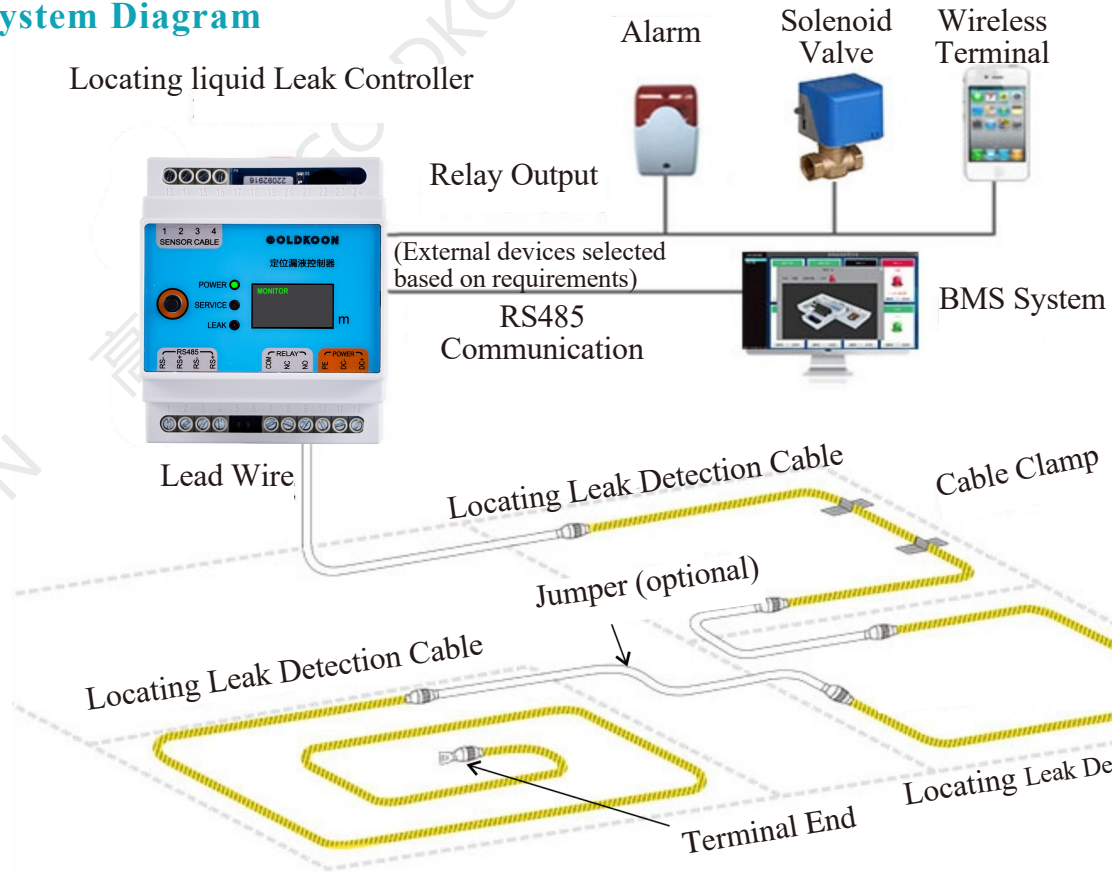
### Caution:

Before powering on, please confirm the supply voltage. Reversed power connection or excessive voltage can damage the controller.;

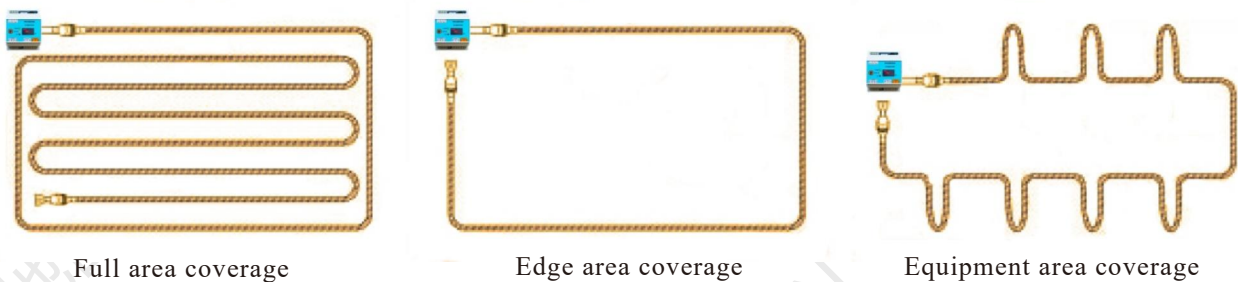
**\*\*For debugging software, user instructions, or communication protocols, please contact our sales staff.\*\***

## Typical Applications

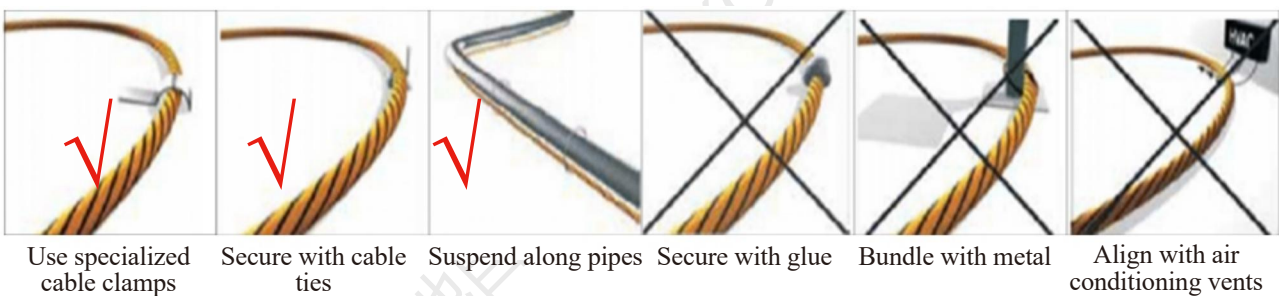
### System Diagram



### Sensor Cable Layout Diagram



### Installation Tips for Sensor Cable



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