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Linetype Water Leak Non-locating Controller(Single Way) Model P-FP1A Data Sheet/User Manual



Ver 3.0

Prosino International Limited.
Room Monitoring Department Product

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Installation/Operation Instructions

General information

Please read these instructions and keep them in safe place. These instructions must be followed carefully to ensure proper operation.

Model P-FP1A linetype water leak sensor can monitor the dual-core leakage sensor cable up to 500 meters. It can be use with the sensor cable, and also can be use with the other sensor probes. Once the sensor contacted the water, P-FP1A will produce sound and light alarm,and drive relay.The P-FP1A linetype water leak sensor using modbus RTU protocol controller programming,and monitoring system to facilitate integration.

P-FP1A either as stand-alone leak detection alarm can also be integrated with other network hosts collected using.

It can be used in the base stations,warehouses,libraries,museums,parking lots and industrial sites and other important places of real-time leak detection,and more can be used for air-handling units,chillers,liquid containers,pump tank and other equipment needed to monitor leakage .

or cabinet surface and mount the P-FP1A in any location as long as it does not create a tripping hazard or expose the P-FP1A to impact damage. The P-FP1A should be mounted within 1200m wire run from the control system host. Contact the factory for methods to increase the wire run distance beyond 1200m.

Important:
 The P-FP1A is an electronic unit. Take the following precautions to avoid damage to electronic components:
 · Handle with care and avoid mechanical shock and impact.
 · Keep dry.
 · Avoid exposure to static electricity by touching a nearby piece of grounded equipment or water pipe prior to handling the P-FP1A.
 Avoid contact with metal filings, grease, pipe dope and other contaminants.

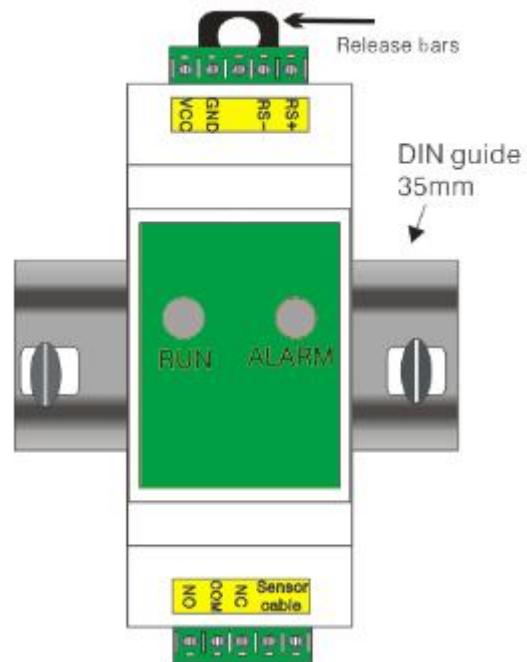


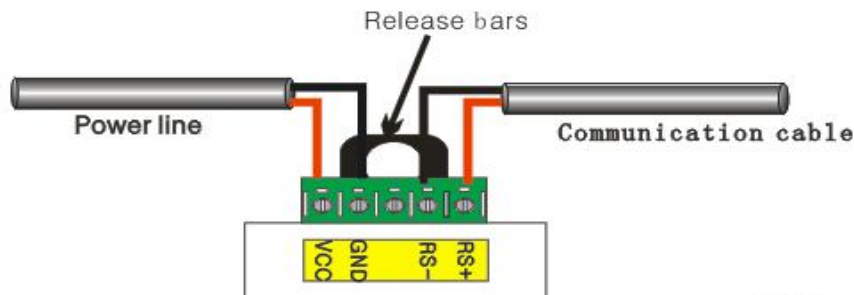
Figure 1: DIN rail mount

Mounting the P-FP1A module

- Secure a sufficient length of DIN rail to the desired mounting surface, or locate and existing DIN rail with sufficient space to install the P-FP1A.
- Remove the P-FP1A from its packaging and snap onto the DIN rail with the release Tab towards the bottom. Shown in Figure 1.

Connections for Power and Telemetry

P-FP1A through RS-485 shielded twisted-pair communications cable transmission of all alarm and status information. Two wire for supply power, two wire for communication cable for telemetry.



Connections for Alarm Relay

P-FP1A of relay contacts can be used for local or remote alarm, or control valve or other devices, also can control automation system contacts input connection. It is only for leakage alarm relay. The relay has to often open, closed two kinds of state, the user can choose by the way, Alarm signal see the table below.

Wiring combination	Alarm condition	Output state
N.O.—COM	No alarm	open
	alarm	closed
	Lose power	open
N.C.—COM	No alarm	open
	alarm	closed
	Lose power	open

Lead Cable Connections for Sensor

The P-FP1A can be used with model P-LFP1B or any other similar leak detection sensing cables. Connect the lead cable to the P-FP1A as shown in Figure 2.

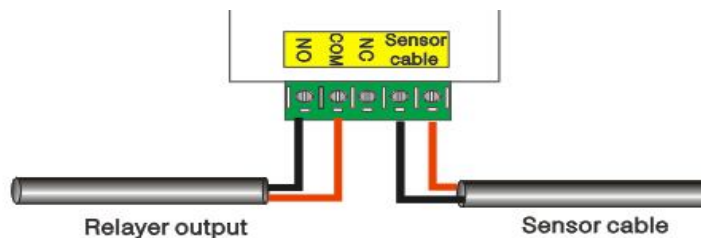


Figure 2

The system configuration operating instructions

P-FP1A address and baud rate settings

If P-FP1A integrated in a monitoring system, each a piece of P-FP1A are required to have a separate address. Manufacturers of delivery of all P-FP1A network address all is 0, baud rate is 9600.

In setting P-FP1A network address, need to do the following steps:

- P-FP1A on electricity, and communication lines change the RS485 single into RS232, signal, access the PC designated serial interface.
- Open configuration software as below Figure 3.

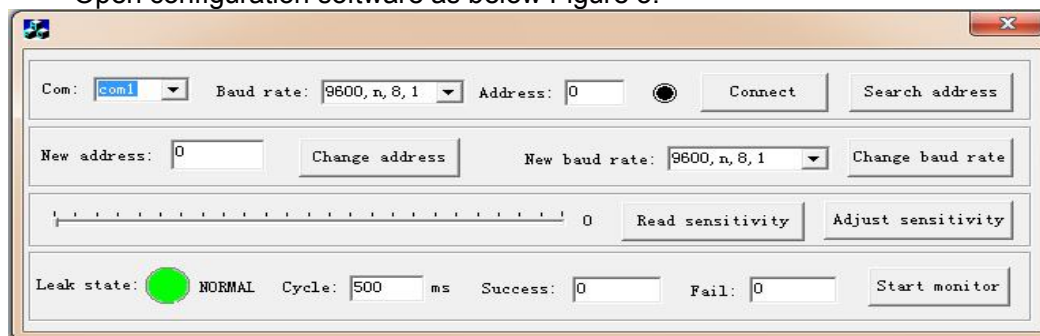


Figure 3: Address and baud rate settings

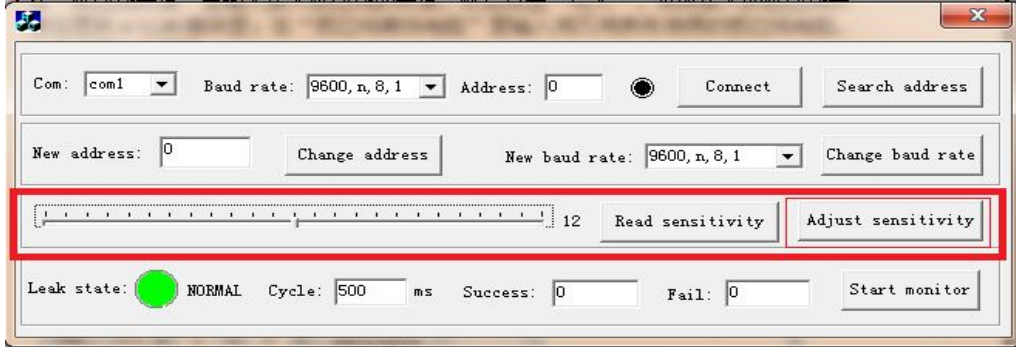
· Choose the correct number of serial, baud rate and the address, and then click "Connect". Set the PC and the P-FP1A communications connection success, then "New baud rate" or "New address" input for new baud rate or new address, click on "Change address" or "Change baud rate". respectively. Set respectively after success, then baud rate and address is set to complete.

Note : set new baud rate, must restart the P-FP1A set to take effect.

Sensitivity setting

Specific steps are as follows:

- P-FP1A properly connected to the pc.
- Start the software.
- Live slider in the software panel, with the click of the mouse, drag set the P-FP1A sensitivity to the appropriate location to stop, then click the "Adjust sensitivity" to adjust the sensitivity settings successfully, As shown below:



P-FP1A LED operational status indications

RUN (green)	flash	Operating normally
	Long bright /long off	Power is not normal or P-FP1A failure
ALARM (red)	on	Leaks in
	off	No leaks in

Leak positioning of the monitoring system accessories

SERIAL NUMBER	MODEL	NAME
1	P-FP1A	The leak not positioning controller
2	P-LFP1B	Leak not positioning sensor cable
4	P-LFP68	connection wire
5	F-P01	Fixed glue stick a clip

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