



P-FPC6A Four- Sensing cables Water Leak Sensor can monitor four 1500-meters leakage sensor cables .The sensor will alarm immediately by light and sound once it detects the water. Combined with modbus RTU protocol controller programming , P-FPC6A makes it into networking system .

It can be used in basic stations, libraries, warehouse, museums, smart buildings, industrial sites, and other important places of real-time leak detection, which plays an important role in the safe operation of the equipments and the safety of significant files.

Features & Benefits

- P-FPC6A can output digital signals, the maximum length of the sensing cable is up to 1500 meters; with standard industrial Modbus protocol.
- DC 12V power supply.
- Varieties of communication baud rate can be chosen by setting the module address and baud rate through the software.
- High technology of anti-static, lightning protection and surge protection to ensure the stable operation.

Technical data

Item number		P-FPC6A	Notes
Environmental rating	Power supply	DC 12V	
	operating current	≤0.1A	
	Operating temperature	-20℃~+75℃	
Water leak detection	LED indicator	One power (POWER, green) Four alarms (ALM, red)	Operate normally , POWER always on; "ALM" flash when alarms
	Button	One button "Elimination" (under "ALM 1")	Press the button "Elimination" momentarily to eliminate the alarm
	Detection channels	4 sensing cable	
	Output signal	4 out puttings	
Communication signal	Sensor cable length (meter)	1500m	The length can be customized if need.
	Relay output	4 out puttings	
	Output mode	Digital output	
	Interface means	RS485 communication mode	
	Communication rate	9600 (4800,19200) , N, 8	The baud rate can be set
Specification	Length*width*heigh mm	104x59x28mm	

Accessories

	No.	Items	Unit
P-FPC6A can alarm with flash and sound in time by real-time detecting the working status of the sensor cable pre-installed in the protection area	1	Non-positioning leak sensor	/PCS
	2	Non-positioning sensing cable	/m
	3	End terminal	/pair
	4	Glue clip	/bag
	5	Connection wire	/m

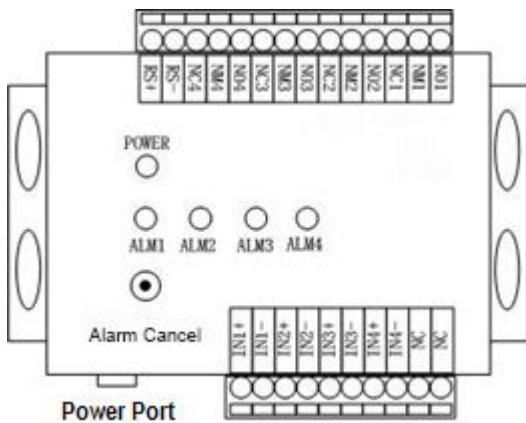
Attention

- Make sure the power is off when connecting the equipment to the wires in case of it getting burned and the danger.
- Handle With Care to avoid mechanical crash.
- Keep it dry and away from the metal filings, grease, pipe coatings and other contaminant.
- Keep the sensing cable away from combustion, strong magnetic field and dust.
- Avoid the sharp objects in case of the scratching and avoid the stumble when arrange the cable.
- The leak detecting distance is set within 500m, please contact us if it needs lengthening.

Wires connection

Detection sensor

The schematic plot, indicators and the interface definition as following:

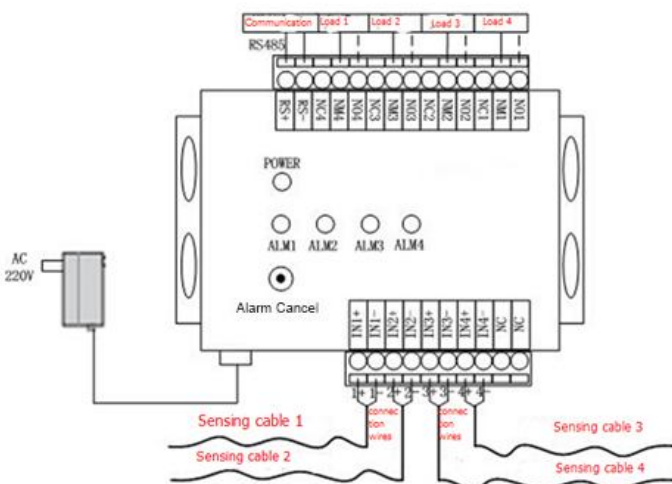


Interface	Connected with
IN1+	Connection wire 1
IN1-	Connection wire 1
IN2+	Connection wire 2
IN2-	Connection wire 2
Interface	Connected with
IN3+	Connection wire 3
IN3-	Connection wire 3
IN4+	Connection wire 4
IN4-	Connection wire 4
NC	No connection
NO1	Relayer output 1 NO
NM1	Relayer output 1 NM
NC1	Relayer output 1 NC
NO2	Relayer output 2 NO
NM2	Relayer output 2 NM
NC2	Relayer output 2 NC
NO3	Relayer output 3 NO
NM3	Relayer output 3 NM
NC3	Relayer output 3 NC
NO4	Relayer output 4 NO
NM4	Relayer output 4 NM
NC4	Relayer output 4 NC
RS-	RS485 -
RS+	RS485 +

One green power indicator, four red alarm indicators, one "elimination" button, and one 3.5-mm DC power interface.

Connect instructions

1. Take the following picture for example, please connect one ends of the connecting wire to the cable and the double wires of another ends to the interface "IN1+" and "IN1-" of the detection sensor. The connection way of other 3 cables are the same.
2. "RS+" should be connected to "RS485 +" while "RS-" to "RS485 -"; "NC" is a reserved interface, no connection here.
3. The detection sensor support 4 relayers output; when connect the relayer, please follow the rule: the "positive pole" should be connected to "NO" like "NO1" or "NC" like "NC1"; while the "negative pole" connected to "NM"
4. The power interface requires 12V DC adapter which should be connected with 220V AC power supply.



Operation Instruction

- 1.Firstly please finish the wires connection in right way according to the above instructions.
- 2.Connect one end of the connecting wire to the sensing cable.
- 3.For the data line of RS485, it should connect "RS+" of the sensor to "RS485 +" of the computer while "RS-"to "RS485 -".
- 4.Please follow connection instruction No.4 above if the relay is needed.
- 5.After all above is done, please connect the 12V DC adapter to 220V AC power supply.
- 6.When it alarms and you press the "elimination" button momentarily , it'll stop the flash and sound, there will be no alarm signals and the relay will get back to normal status.
- 7.The sensor will detect the leak automatically 30s later after you press the button "elimination", and the time interval can be customized set such as 5s, 10s, 30s, 1min, 3min and so on.
- 8.The detection sensitivity can be adjusted by using the soft to set the level and range; there are 6 levels in total : level 10, level 20, level 30, level 40, level 50, level 100. The higher the level is, the lower sensitivity it'll be. The default setting of the sensitivity is level 10 and range 5.

Common faults and maintenance

Indicator	Status	Statements
POWER (green)	On	Electricity is normal
	Off	Electricity is not normal or P-FPC6A failures, please make sure the circuit is correct.
ALM1—ALM4 (red)	Flash	Leaks exists
	off	No leaks or poor contacts, please make sure the circuit is correct.
Buzzer	Ring	Leaks exists
	No ring	No leaks or alarm function closed or P-FPC6A failures

Notice:

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