

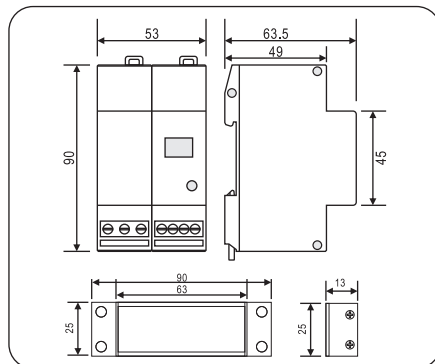


LPES-LSCD

IC 06 (SN)



Dimension diagram:



• Technical data

Type	IC 06 (SN)
Art.-No.	810 406
Response behaviour of impulse current	> 1kA, rise time:8-10ms
Sequence of impulse	> 1s
LCD indicator	0 ~ 9999
Inductive line	1m long twisted-pair
Power supply	90V~255V AC, 50/60Hz
RS485 interface	RS485 and Modbus communication protocol to achieve remote display and control
Transmission range	300m (1pairs UTP signal line)
Operating temperature range	-10°C...+50°C
Mounting on	35mm DIN rail
Enclosure material	Purple thermoplastic, UL94-V0
Dimension	3 mods
Certification	IEC 61643-11; GB/T 18802.11; YD/T 1235.1
Type of remote signaling contact	Contact
Switching capacity	AC: 250V/0.5A; DC: 250V/0.2A, 125V/0.2A, 75V/0.5A
Cross-sectional area of remote signaling contact	Max. 1.5mm ² solid/flexible

• Product introduction

1. Summary

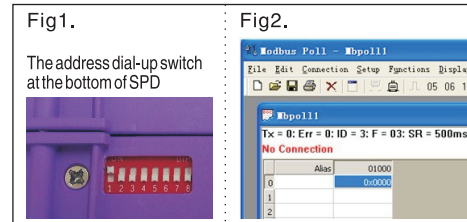
This product is used for counting the number of current discharge by surge protective devices to earth. the unit is also equipped with an RM (remote) input port, to detect any changes from the SPD RM terminal, and the maximum remote location, distance approx. 300m . this unit can also communicate via RS485, To transmit impulse counter record & Rm(remote) information.

• Installation setting

1.Address dial-up switch:

It includes 8-way address dial-up switches, count in binary mode, effective while turning on the location ON (Fig1) . For example: Dialing No. 1, 2 to the location ON, which indicates the impulse counter's hardware address cross refer address is 3 during access at RS485.

Note: Re-power to make the address operate after dialing, we propose to set the address mode well before the power test installation.



2. Main character

- 3 standard module width
 - Inductive loop (feed through with the earthing cable of SPD)
 - 4 digits LCD display, with set and reset function
 - RM signalling connector for SPD fault indication
 - Modbus remote communication function
 - 1m long inductive twisted pair
- #### 3. Application environment
- Temperature: -10°C ~ +50°C
 - Relative humidity: ≤ 95% (25°C)

2.RS485 communication function:

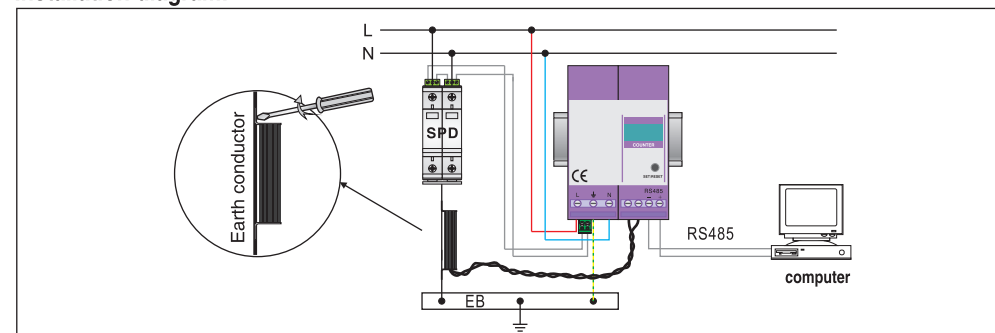
PC communication funtion,if there is a computer software which can support Modbus protocol, such as Modbus Poll(Fig.2),you can utilize this software to achieve the remote communication funtion. The address and data of the Modbus poll are stored in decimal format, pay attention to the hexadecimal conversion while setting address.The serial port computer and RS 485 signal module (USB convert to RS485 is better) is required before operation, to protect the computer from lightning strike before communication.

- ① Choose the serial port: the serial port of the computer is used to convert to RS485 module, As an example of the windows XP system, my computer-hardware-devices processor-interface, check the currently occupying port No. of the telecom module, then set it into the computer software.
- ② Circuit connection: respectively wiring from the interface of the impulse counter marked RS485+/-, RS485+ connect with RS485A (RS485+), RS485- connect with RS485B (RS485-), when getting the count value, if data register address is 1000, it means that the value is stored in this address.

• Installation instruction

1. Open the attached inductive ring and hitch around the earthing wire, then fixed the SPD on the 35mm DIN rail.
2. Make sure the IC06 connect with power and earth, and the earthing wire cross sectional area should be 4mm² and the withstand voltage should be equal to or more than AC500V insulated short copper wire.
3. Switch on the power, do the resetting test when the display screen indicates 0.
4. Test direction: there is only one button on the counter's surface, the main function is to test and zero clearing.
 - ① Press the button " SET / RESET" not more than 2 seconds, the number indicates in LCD will add 1. when the number reaches the Max number (999 or 9999) , it needs to be zero clearing again for using.
 - ② Long press the button "SET / RESET" and hold it for 5 seconds, the number in LCD will be cleared to zero.

Installation diagram:



	WARNING:
	<ol style="list-style-type: none">1. The device must be installed by electrically skilled person, conforming to national standards and safety regulations.2. It is recommended that installation should be done under power off condition.