## Surge arresters



General

## Features

- Protects measuring devices from damage by conducting large power surges and short transients effectively to ground.
- Units for protecting of 2-wire / 4-20 mA, 3 -wire / 4-20 mA and telephone lines is available.
tremendeous, it is impossible to obtain 100 \% protection, but MJK Surge Arresters will give effective protection in case of a lightning strike close to the installation or surges from lightning strikes in other parts of the installation by conducting the surge voltages to ground.

Application

- Protection of telelephone lines in regions with lightning.
- Protection of 4-20 mA transmitters installed at high / distant locations.
- Protection of 3-wire ultrasonic level meters installed at high locations in regions where lightning often occurs.
- DIN-rail mounting (Panel) or on site mounting (Field).


## Function

MJK Surge Arresters are designed with gas arresters, varistors and transil diodes. The units are available in a number of variants for use in instrumentation appications and on SCADA systems.

The components in the surge arresters will not be damaged when activated, so there will no need for replacement after a lightining strike.

Surge arrester for 2-wire connection


Used for surge protection of measuring signals from 2-wire 4-20mA transmitters. Especially in sewage plants where many transmitters are placed around the plant, protection of the $4-20 \mathrm{~mA}$ loop wires is an efficient way to protect the individual transmitters and to prevent damage to other equipment such as PLC's, signal converters and other measuring and control equipment. Available for DIN rail mounting (Panel) or on site mounting (Field)

Surge arrester for
3 -wire connection

Used for surge protection of signals received from 3-wire transmitters mounted in a plant subject. Especially in sewage plants, where many transmitters are placed around the plant, protection on the $4-20 \mathrm{~mA}$ wires is an efficient way to protect the individual transmitters and to prevent damage to other equipment such as PLC's, signal converters and frequency converters.
Available for DIN rail mounting (Panel) or on site mounting (Field)


Surge arrester for communications line


Used for surge protection of communications lines such as telephone lines, RS-485 twisted pair cables between pumping stations and serial communication links between instruments, PLC's etc. Surge protection is efficient for protection of remote installations or connections to the telephone network and user owned cables between pumping stations and water wells on at the plant. The surge protector prevents damanges on other equipment on the plant.


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